Inquiring Minds:Life Lessons I Learned from Modern Physics #47 Feb 2018 "Whoever is careless with the truth in small matters cannot be trusted with important matters." A. Einstein

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The Best Little Physics Book I Ever Read

Two weeks ago I stumbled upon a little book displayed in our local library. Its small 80-page size and its title, Seven Brief Lessons on Physics, time. Scientific doubt (Heisenberg's caught my attention because I love simplicity and summaries, and do not have the background nor the patience to understand more. Turns out it was one of the best books on the subject I've readand the only book I immediately re-read.



Carlo Rovelli's international best seller not only offers a clear and interesting overview of the weird world of modern physics, but, by extension, a look at the scientific method and the

relentless search for truth, epistemology or "that Consider using probability to evaluate the truth of which distinguishes justified belief from opinion."

more urgent today than 2000 years ago when and/or rape lie 2% of the time according to several Pontius Pilate reportedly asked Jesus, "What is studies from reliable sources (Stanford), that the truth?" It is more urgent because uninformed accusers are credible and multiple, and the court opinion, lies and/or misinformation can travel the process favors the wealthy and humiliates the globe instantaneously and destroy nations or the victim-is it not probable that the court of public planet since we have the technology to do that also. With great power comes great responsibility.

Physical Extremes Test Our Comprehension

Ravello reviewed how the pursuit of science extended our senses beyond the obvious. The earth

itself seems to be flat, stationary, and the center of the solar system, though through science we know it is not. In modern physics, time and space themselves are different than common sense would dictate. In quantum mechanics



things get crazier. Subatomic particles can be observed by their collisions and interactions with each other and cannot be predicted to appear in

any one given place at any given Uncertainty Principle released in 1927) is the "new" norm, and mathematical probability (statistical physics) is the new way of dealing with the ambiguities of extremes in nature. An inflated but



unknotted balloon when released will land in a certain area, but we cannot predict exactly where.

Evaluating Political Extremes by Using Probability as a Test of Truth

the following:

Not surprisingly, I view the search for truth as Given the study that accusers of sexual harassment opinion is more effective in changing the culture than a stalled or biased government?

> Which is more probable: 1, that the entire FBI, CIA, DOJ of thousands of career professionals are plotting against the present Administration, or 2, a person with 1000+ inaccurate statements (NY <u>Times</u>) within the past year is lying once again?

> And yet recent polls two reported that 73-44% of Republicans believed that the Nunez memo discredits the FBI and its investigation. Hopefully that is lower now with more credible information out. Probability is not rocket science, just common sense when the truth gets lost in the system.

Can the new Liberal Populism Jumpstart a stalled and corrupted Government?

be pinning down politicians and ousting suspected "hear what we want to hear and disregard the offenders by the power of social media, the rest." I would imagine this would equally apply to unfettered press, and credible news media which any of us who have a strong belief system, be it covers the various movements. And this is because more conservative or liberal, more moderate or Congress is seen as compromised if not corrupted libertarian, more socialist or capitalist, more by the lobbying of special self-serving interest religious or atheist. Hopefully reason can prevail groups, gerrymandered voting districts, and more.

accusations giving birth to powerful organized movements (#blacklivesmatter, #dreamers, #metoo, and now #neveragain) have become more credible

According to CNN, "The US makes up less than 5% of the world's population, but
holds 31% of global mass shooters."

delusional dictators. and/or misinformation, in the US and worldwide. cultural change is revolutionary.

Popular democracy in action versus the Republic (our representative democracy) we now have is not skewed by gerrymandered districts and electoral Thinking back to the horrors of WWII, I see misrepresentation, bought-off politicians lobbying abuse, voting restrictions, etc. Much of themselves from the evil outcome of the future and this is due to <u>critical mass</u> of long term problems live in the present with hope, resolve and courage. probably aided by the gross mismanagement of the I think of the 1997 comedy-drama film Life is country by the present Administration.

Many would love to see all recipients of direct or indirect NRA PAC funding exposed as such in upcoming elections. The same with those funded by big pharma, big oil, corrupt businesses, and/or which conservative PACS support these conglomerates—to be outed and disempowered by the disenfranchised or abused. Woe to the good ol' boys -truly adolescent and self serving - and the installment of principled leaders who value more service to others than self. Women, it's your turn!

The Difficulty of Changing One's Belief System

Truth as a belief is part of one's core being and In the wake of tragedies, public outrage seems to very hard to change. We all have a tendency to when emotions run high, and the various arts, sciences, and faiths can help us find a new Real people, real tragedies and or credible equilibrium and balance with more truth, justice, and prosperity for all. It will never be perfect but it can always be better as civilization has many wins.

Protecting Ourselves in the Process

In the face of so much social disorder and change, it is tempting—and necessary at times—to close one's eyes and cover one's ears to chaos and the and persuasive than political parties, would-be cacophony, maybe to play, pray or meditate. It's Russian fast becoming in poor social taste to discuss the The sad state of affairs even with like-minded friends and family because it is so negative. So how does one balance the need to know and engage with the need to protect oneself and family emotionally?

via people not complaining but acting to protect

Beautiful directed by and starring Roberto Benigni as "a Jewish Italian book shop owner, who employs his fertile imagination to shield his son from the horrors of internment in a Nazi concentration camp." I found it a very a powerful movie in times much worse than



our own that inspired and encouraged me that "this too shall pass," and life will be the better by carefully facing our problems and resolving them with competence, creativity, and equanimity.