Argument technologies and online disinformation: pitfalls and prospects





Fabio Paglieri

SSA 2020 – Perugia, 7 September 2020



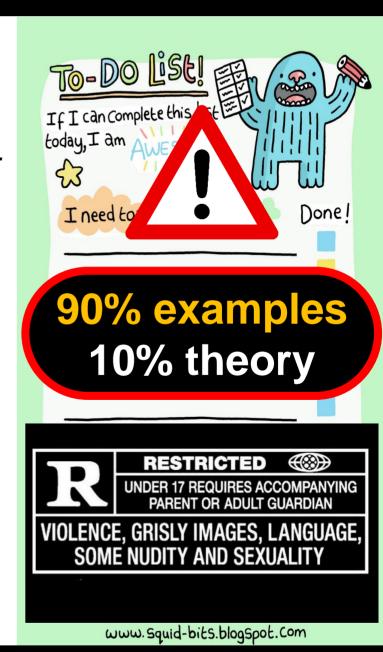
Outline

- Problem setting: the relevance of fake news, some recent examples
- The history of fake news: examples of predigital disinformation, what's different now?
- Fake news today: honest mistakes vs. malicious manipulation, lessons learned on what makes us vulnerable
- Argument technologies to the rescue?
 Pitfalls to avoid vs. best practices
- Take-homes messages on how to develop argument technologies helpful in dealing with disinformation



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Fake news: a contemporary concern

- A dominant buzzword in the public and scholarly debate on the impact of technology on society
- A growing political concern:
 - suggested impact on world-changing events (e.g., last US Presidential election, Brexit, COVID-19 pandemic)
 - EU High-Level Group on Fake News and online disinformation







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 - EU High-Level Group on Fake News and online disinformation
- From their final report (March 2018):
 - promote media and information literacy to counter disinformation and help users navigate the digital media environment
 - develop tools for empowering users and journalists to tackle disinformation and foster a positive engagement with fast-evolving information technologies
 - safeguard the diversity and sustainability of the European news media ecosystem

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FNs: argumentation to the rescue?

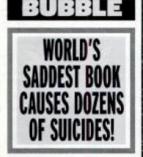
WEEKLY WORLD®







 The problem of fake news is the problem of the spreading of online disinformation, against a backdrop of shallow reasoning, lack of epistemic vigilance, and disregard for source quality









FNs: argumentation to the rescue?

WEEKLY WORLD







• The problem of **fake news** is the problem of the **spreading of online disinformation**, against a backdrop of *shallow reasoning*, *lack of epistemic vigilance*, and *disregard for source quality*

WORLD'S

A TO THE TOTAL TOT







 Argumentation theory & technologies should be able to <u>help</u>: thanks to them, clear thinking and judicious arguing should be able to win the day against misinformation







FNs: argumentation to the rescue?



FNs may cause silly incidents...

An Italian Couple Believing In A Flat Earth Was Taken Back To Quarantine, Lost In Search Of The Edge Of The World

Mary Davis | September 6, 2020 | ⊙ 22 | © 0

...but also grievous mishaps

COVIDeniers: Anti-Science Coronavirus Denial Overlaps with Climate Denial

NEWS

Protests in Germany: 45 officers injured at Berlin rally against coronavirus curbs

Berlin police said dozens of officers were injured — and three were hospitalized — while dispersing some 20,000 people protesting anti-pandemic measures. Many participants dismissed the coronavirus as a "false alarm."













DW correspondent Leonie von Hammerstein reporting from coronavirus protests in Berlin



al machine created by the fossil fuel industry is now a maior source of COVID-19 disinformation. nany of the same tactics they have used to attack climate scientists and delay action to downplay avirus outbreak and sow distrust in the response efforts of governments, scientists and the medical ly consequences that are now unfolding before our eyes.

reat of COVID-19 to argue against action to address climate change, which would leave us all more ray of future catastrophes that scientists say will result from additional degrees of warming.

eSmog presents the #COVIDenial evidence our team has gathered revealing the overlapping cast of g attacked climate science and are now spreading COVID misinformation, touting false cures, eories and fomenting attacks on public health experts. We began tracking this overlap in March wrote Meet the Climate Science Deniers Who Downplayed COVID-19 Risks.

icluding Koch network-funded entities such as Americans for Prosperity and State Policy Network cked stay-at-home orders and orchestrated 'Liberate' movement protests nationwide, as Steve Horn ate' Groups Are the Same Ones Pushing Climate Denial. And as DeSmog UK's Zak Derler reported in Use Coronavirus to Downplay Environmental Threats, notorious climate deniers around the world he novel coronavirus pandemic is a hoax, or that it's an evil plot by "globalist elites" like Bill Gates rnately force vaccines or a "world population cull."

eratives at work spreading all manner of doubt and delusion to confuse the public, and their actions and words will rorever cement them on the wrong side of history.

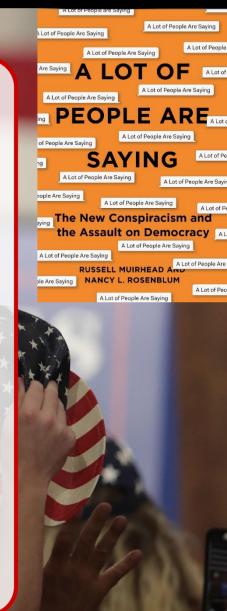
A new spin on conspiracy theory



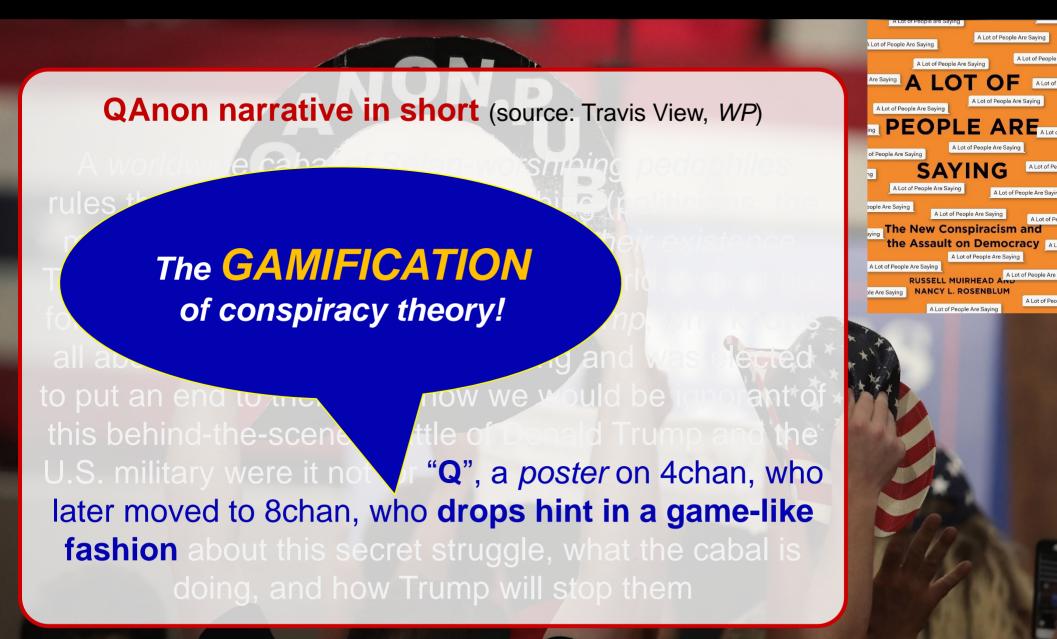
A new spin on conspiracy theory

QAnon narrative in short (source: Travis View, WP)

A worldwide cabal of Satan-worshiping pedophiles rules the world: they control everything (politicians, the media, Hollywood), so they cover up their existence. They would have continued ruling the world, were it not for the election of President Donald Trump, who knows all about this evil cabal's wrongdoing and was elected to put an end to them. Still now we would be ignorant of this behind-the-scenes battle of Donald Trump and the U.S. military were it not for "Q", a poster on 4chan, who later moved to 8chan, who drops hint in a game-like fashion about this secret struggle, what the cabal is doing, and how Trump will stop them



A new spin on conspiracy theory

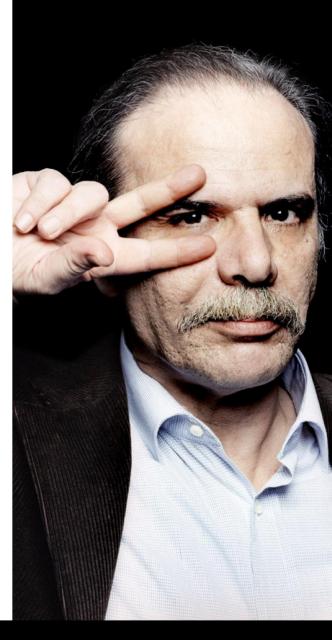


The history of FNs: a blast from the past



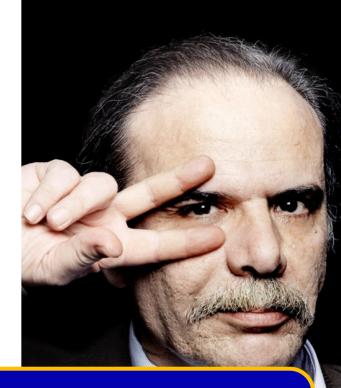
FNs as old news...

- Diego Marconi (2019), «Fake news, the crisis of deference, and epistemic deocracy»
 - Fake news has been with us since the beginning, if not of history, of history writing. According to Thucydides (II, 48), at the time of the "plague" (probably a hemorrhagic fever like Ebola) that hit Athens in 430 b.C. during the Peloponnesian war the rumor spread that the Spartans had poisoned the wells in Piraeus. The ground for the rumor was that the epidemics had started there, not in Athens proper, and Piraeus at the time had no fountains of drinking water, only wells. In fact, the epidemics was coming from Africa, so that it would naturally hit the port city of Piraeus before reaching Athens.



...which tend to repeat themselves

- - Thucydides (II, 48), at the time of the "plague" (probably a hemorrhagic fever like Ebola) that hit Athens in 430 b.C. during the Peloponnesian war the rumor spread that the Spartans had poisoned the wells in Piraeus. The ground for the rumor





At the time of the COVID-19 pandemic that hit the world in 2020, the Trump administration spread accusations and innuendos that China had created the virus in a lab in Wuhan.

A common counter-objection

Sure, falsehood and disinformation have been around for ages...



...but once upon a time they used to be much LESS FREQUENT and definitely LESS INFLUENTIAL!

Old FNs were no less frequent

- In the *Middle Ages*, **fake documents** were **extremely frequent**: the *Donation of Constantine* (more on that in the next slide) was <u>the norm</u>, not the exception
- Forgeries were easy to produce and very hard to debunk, in a world were a significant proportion of people could not even read or write (illiteracy in 1820 was at 88% worldwide)

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- In a pre-digital environment, with extremely limited mobility, no photographic data, and no news services, impersonations of notable characters were also fairly common. Some people even got resuscitated thanks to this practice, simply because the news of their death had not yet circulated widely enough: among others, Henry V of Germany, Alfonso I of Aragon, and the maid of Orleans, Joan of Arc



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- Btw, now we are busy blaming the Internet as the source of all our worries, yet we fail to appreciate how much it improves our ability to detect and debunk false claims



Old FNs were no less damaging

<u>Definition</u> (Cambridge): **false stories** that appear to be **news**, spread on the internet or using other media, usually created to **influence** political views or as a **joke**

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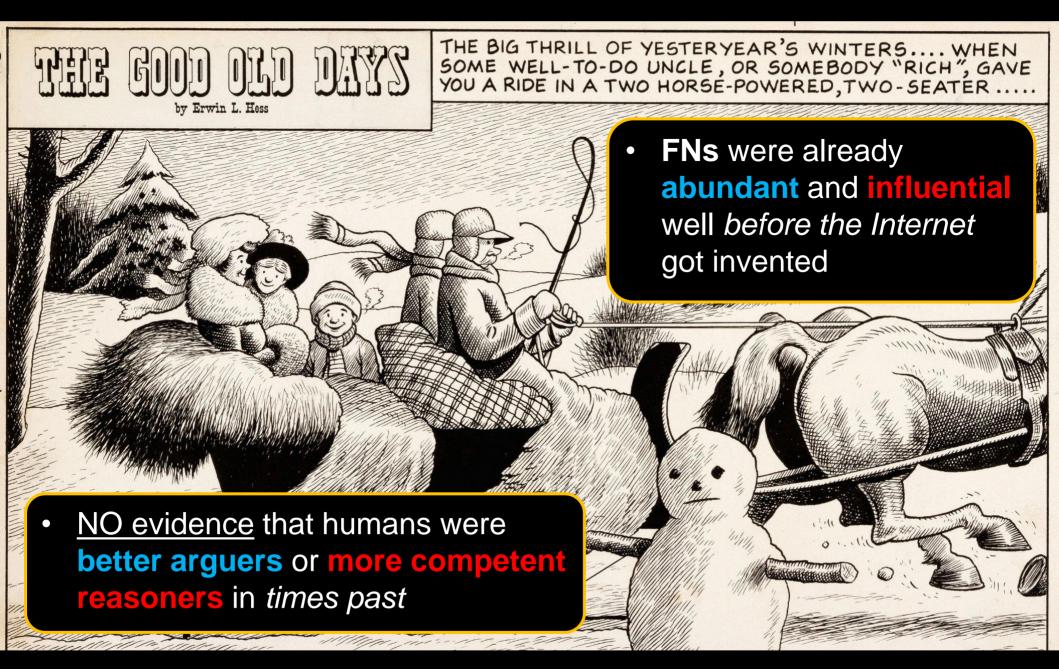
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Well before the Internet, plenty of *relevant examples* throughout human history:

- the Donation of Constantine, 4th century
- the letter of **Prester John**, 1165
- the island of California, 1510-1747
- the **Protocols** of the Elders of Zion, 1903
- and many more...



Enough with the good old days!



What HAS changed dramatically

Unprecedented ACCESS



What HAS changed dramatically

Unprecedented ACCESS

- to DATA
- to PEOPLE
- to PRODUCTS & SERVICES





What HAS changed dramatically

Unprecedented ACCESS

to DATA

+ PRODUCTION & DISTRIBUTION

- to PEOPLE
- to PRODUCTS & SERVICES



DISINTERMEDIATION

Now traditional gate keepers of information (authors, journalists, authorities) have a much more marginal role in the information ecology, since any schmuck with a device and an Internet connection is a potential information hub



With great power...



- These new possibilities should imply increased personal responsibility, as per Spidey motto: "with great power comes great responsibility"
- Alas, users do not feel particularly responsible for the contents they share, while most platforms encourage a carefree attitude; plus, little is done to give them the tools needed to exercise epistemic responsibility (more on this later)





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However...

 Everything online IS mediated by several agencies, we often lack ways of tracking them or don't even bother trying

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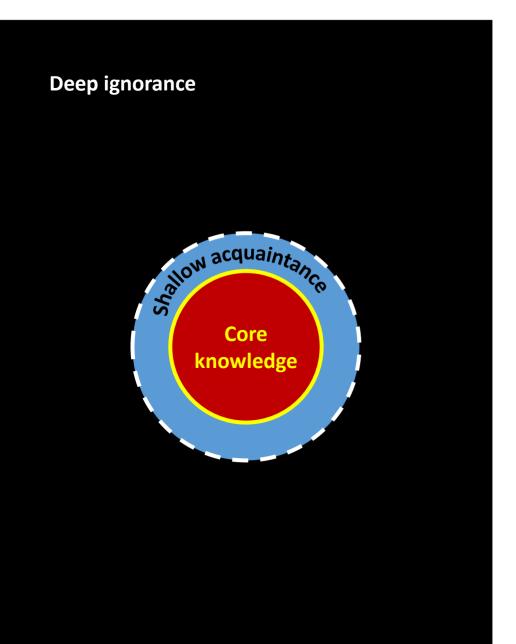
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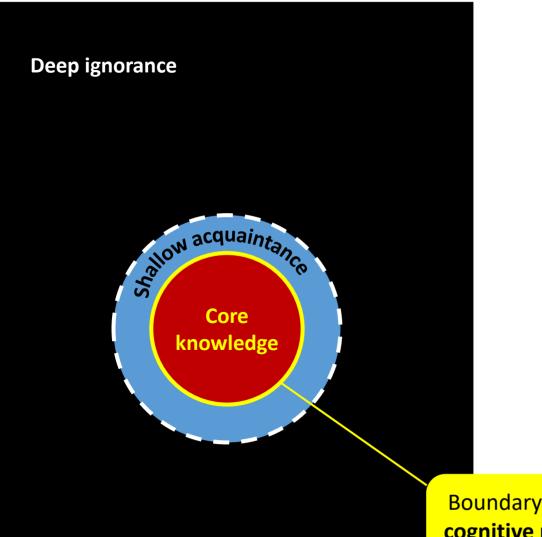
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 On a growing set of key issues, we lack the skills needed to make up our mind in an epistemically responsible way

How it used to be...

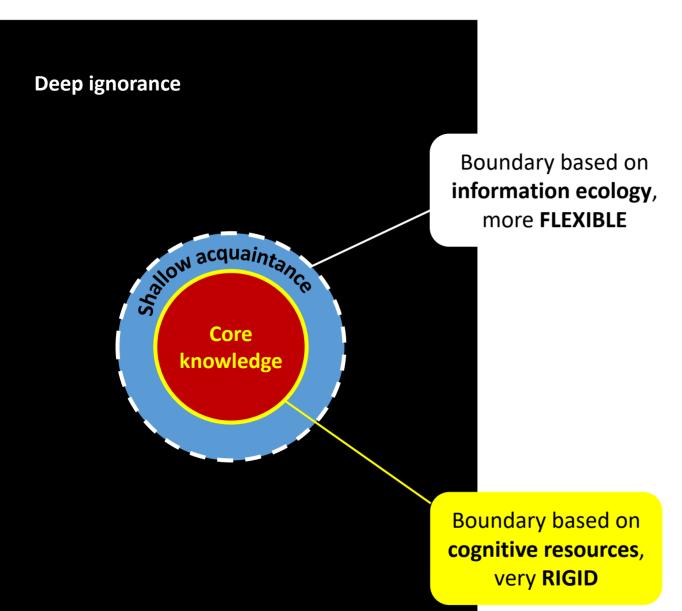


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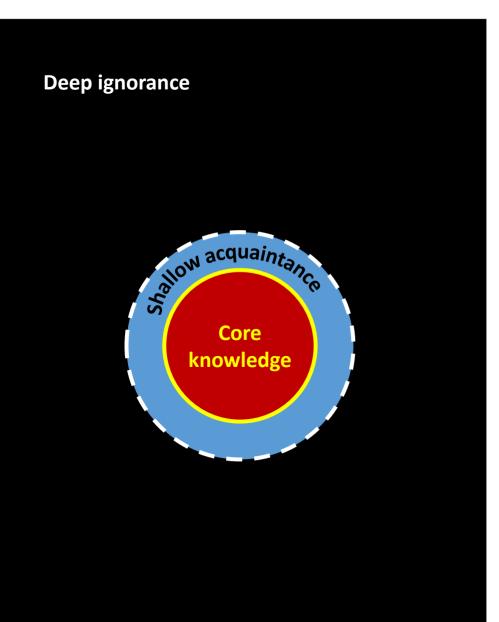
Boundary based on cognitive resources, very RIGID

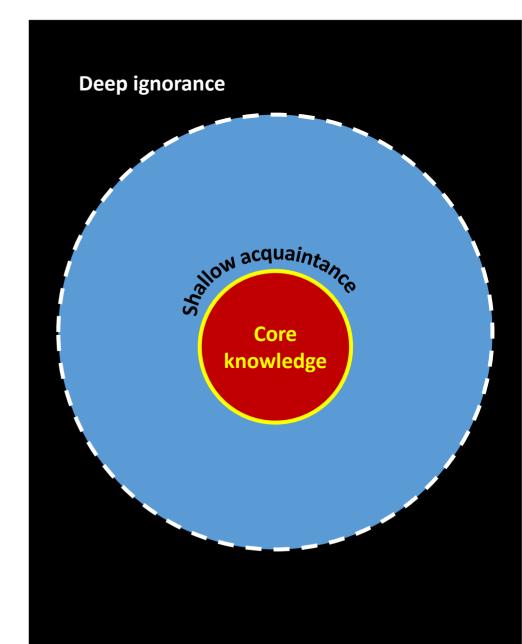
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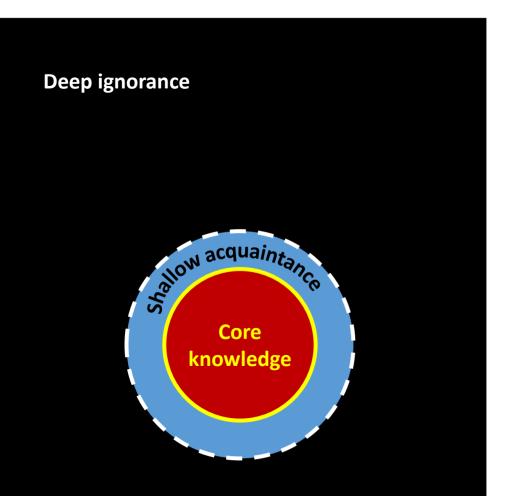
...how it is now.

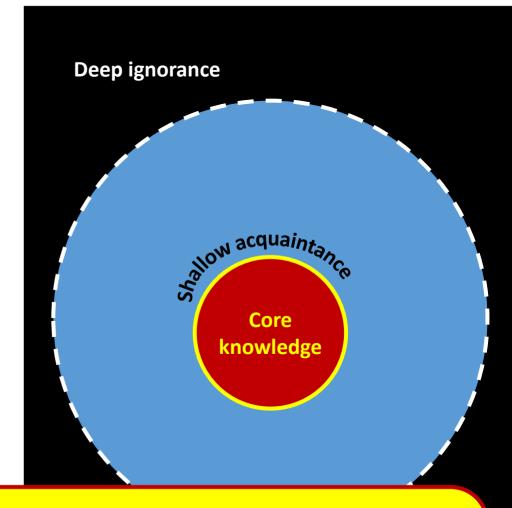




How it used to be...

...how it is now.





Problem: easy to mistake shallow acquaintance for core knowledge!

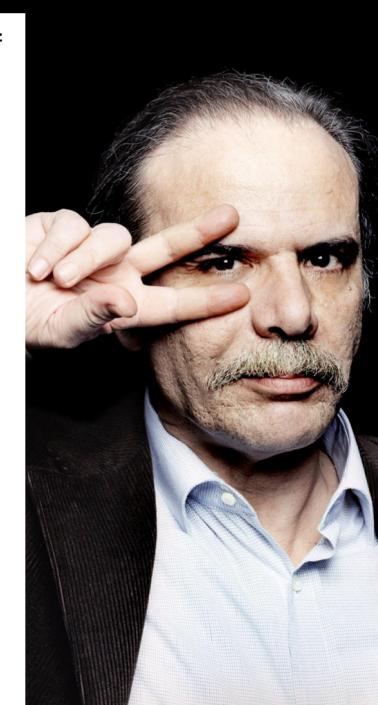
What HAS changed dramatically

 The information ecology has changed much more and more rapidly than we have – fake news as a misalignment issue



Marconi on epistemic democracy

- **Diego Marconi** (2019), «Fake news, the crisis of deference, and epistemic deocracy»
 - **Epistemic democracy** [is] the belief that every opinion is not just as legitimate as any other, but as authoritative as any other. Freedom of the expression of opinions is a constitutive principle of liberal democracy. However, it does not carry with it the corollary that all opinions are equally valuable. Freedom of expression is compatible with the notion that there are socially grounded entitlements that make some opinions more authoritative than others, depending on subject matter. (...) In a liberal-democratic society, such epistemic entitlements are not based on birth, or wealth, or political allegiance: they are based on socially established educational processes and the judgment of socially acknowledged communities of experts.



Epistemic democracy: wrong but appealing

• Scapegoat mentality: regarding experts as flawed or biased and favoring simplistic explanations that place the blame on someone else appeals to our need to avoid taking responsibility for our predicament – "if it is their fault, then it's not mine!"



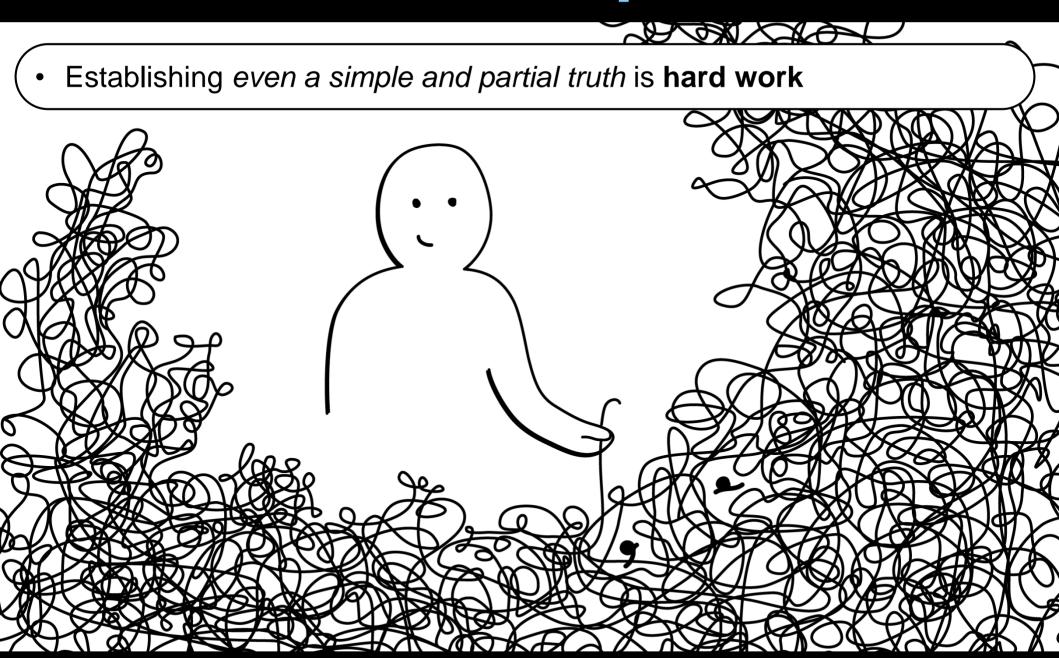
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- Rhetoric of empowerment: by levelling the playfield, epistemic democracy opens up the possibility of engaging as peers any interlocutor, regardless of their credentials and competence – which is what we observe every day in public discourse



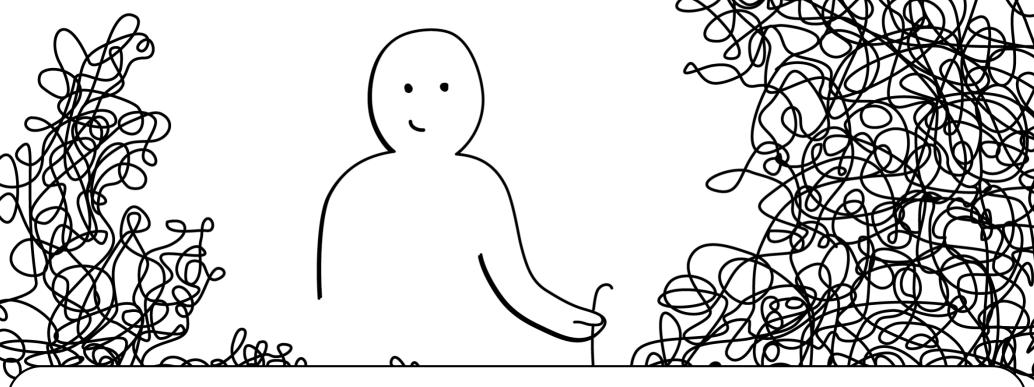


Truth? It's complicated!



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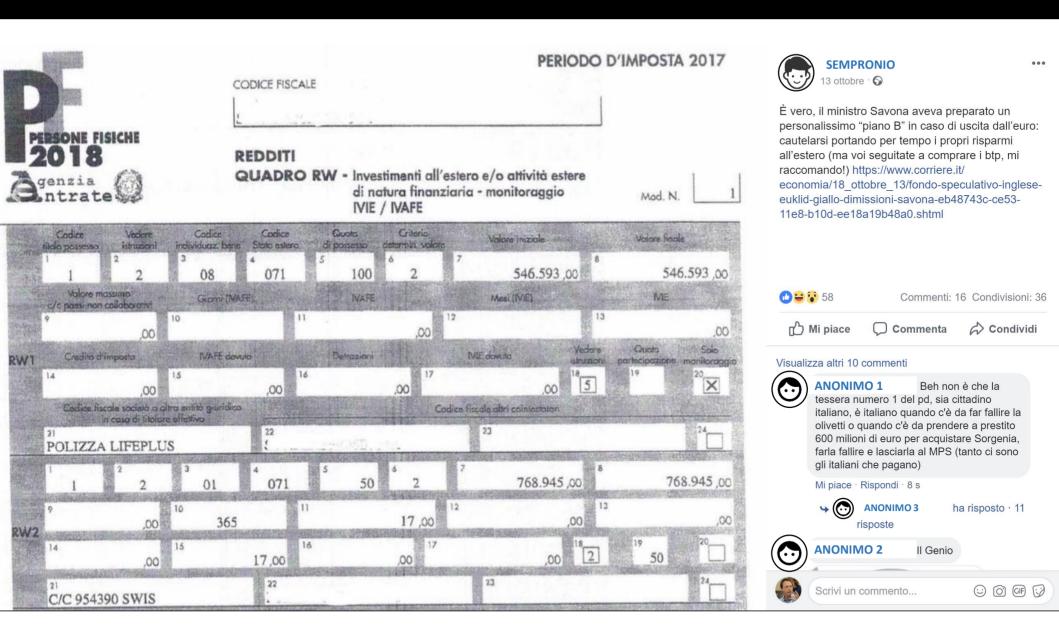
Establishing even a simple and partial truth is hard work

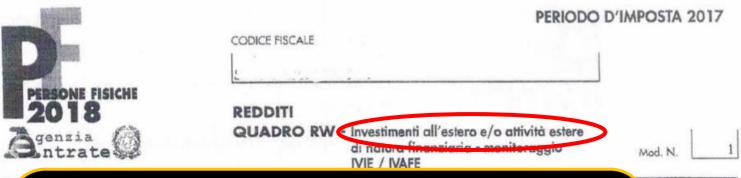


- The wrong attitude: oversimplifying truth
- Unfortunately, a capital mistake in recent laws "against fake news"

Fake news today: our mistakes are someone else's weapons







- The original post uses irony to criticize the then current Italian Minister of European Affair based on an inconsistency between his official position on the soundness of Italian economy and his substantial investments in other countries, as documented by his tax declaration
- Additional elements:
 - Snapshot of his tax declaration
 - Link to an article on "Il Corriere della Sera"



Scrivi un commento...

SEMPRONIO
3 ottobre : 🚱



ANGRY JIM Come si chiamano le notizie false? Bufale? Beh liberi di credere alle sciocchezze del corriere! https://www.laverita.info/il-corriere-accusasavona-ma-le...



LAVERITA INFO

Il Corriere accusa Savona di sedere...

Mi piace · Rispondi · 8 s



SARCASTIC JOE

La verità 😂 😂 😂 😂

Description of the pagliacciiii

Mi piace · Rispondi · 8 s



ha risposto · 6



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Mi piace · Rispondi · 8 s







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Mi piace · Rispondi · 8 s

risposte



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pagliacciiiii

Mi piace · Rispondi · 8 s

ANGRY JIM

ha risposto · 6

Then another commentator,
 Sarcastic Joe, sarcastically
 challenges the credibility of the
 debunking site itself,
 LaVerità.Info, making fun of
 Angry Jim for believing in it ("you
 people are clowns!")



Angry Jim Sarcastic Joe erano tanto i bravi i tuoi che la maggioranza dei popolo italiano ha scelto altro!
Non hai la percezione di quanto avete fatto schifo a governare?

Mi piace · Rispondi · 8 s · Modificato



Sarcastic Joe tranquillo ignorantello, alla prossima richiesta di mutuo forse capirai.

Capra

Mi piace · Rispondi · 8 s





Angry Jim Sarcastic Joe a parte che c'entra il mutuo (stai a sentire le cazzate di martina?) Il mutuo ce l'ho già fenomeno!



Angry Jim

Sarcastic Joe

tuoi che la maggioranza dei popolo italiano Non hai la percezione di quanto avete fatto governare?

Mi piace · Rispondi · 8 s · Modificato

Angry Jim reacts by lashing out at Sarcastic Joe's <u>alleged</u> political party, who lost the last elections, and accusing them of having governed poorly



Sarcastic Joe tranquillo ignorantello, alla prossima richiesta di mutuo forse capirai.

Capra

Mi piace · Rispondi · 8 s





Angry Jim

Sarcastic Joe a parte che c'entra

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Mi piace · Rispondi · 8 s · Modificato





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Mi piace · Rispondi · 8 s

Sarcastic Joe keeps provoking
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Mi piace · Rispondi · 8 s

Angry Jim replies with a vulgar allusion to the views of the current Secretary of Caio's alleged political party ("le cazzate di Martina")



Angry Jim

Sarcastic Joe se poi, invece ti

vuoi veramente documentare, invece di dare della capra a qualcuno ad cazzum, ti consiglio di leggere questo articolo sulla inesistente correlazione tra spread e mutui! https://www.agi.it/.../spread mutui.../news/2018-10-12/



AGI.IT

Un mutuo costa davvero di più se lo spread aumenta?

Mi piace · Rispondi · 8 s



Sarcastic Joe mi convinco sempre di più che le pezze al culo le meriterete tutte tutte

Mi piace · Rispondi · 8 s





Angry Jim Sarcastic Joe tu prendi le obbligazioni della banca dell'etruria e vedrai come ti aumenta il capitale!



Angry Jim

vuoi veramente documentare, invece di dari qualcuno ad cazzum, ti consiglio di leggere sulla inesistente correlazione tra spread e n https://www.agi.it/.../spread mutui.../news/2



AGLIT

Un mutuo costa davv lo spread aumenta?

Sarcastic loe

Angry Jim further reacts with ironic vulgarity ("ad cazzum") and providing a source that should debunk the correlation between spread and mortgage rates somehow invoked by Caio – but the article does NOT prove the point, and nobody notices!

Mi piace · Rispondi · 8 s



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Mi piace · Rispondi · 8 s





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Un mutuo costa davv lo spread aumenta?

Mi piace · Rispondi · 8 s



Sarcastic Joe mi convinco sempre di al culo le meriterete tutte tutte

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Angry Jim Sarcastic Joe to obbligazioni della banca dell'etruria e vedrali il capitale!

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- Angry Jim, for the *gran finale*, throws into the mixture the 2015 Banca dell'Etruria scandal, which involved a prominent member of Caio's alleged political party and has nothing to do with anything else



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- Thematic inconsistency within the debate: no point is critically examined, many topics feel like items in a standardized arsenal

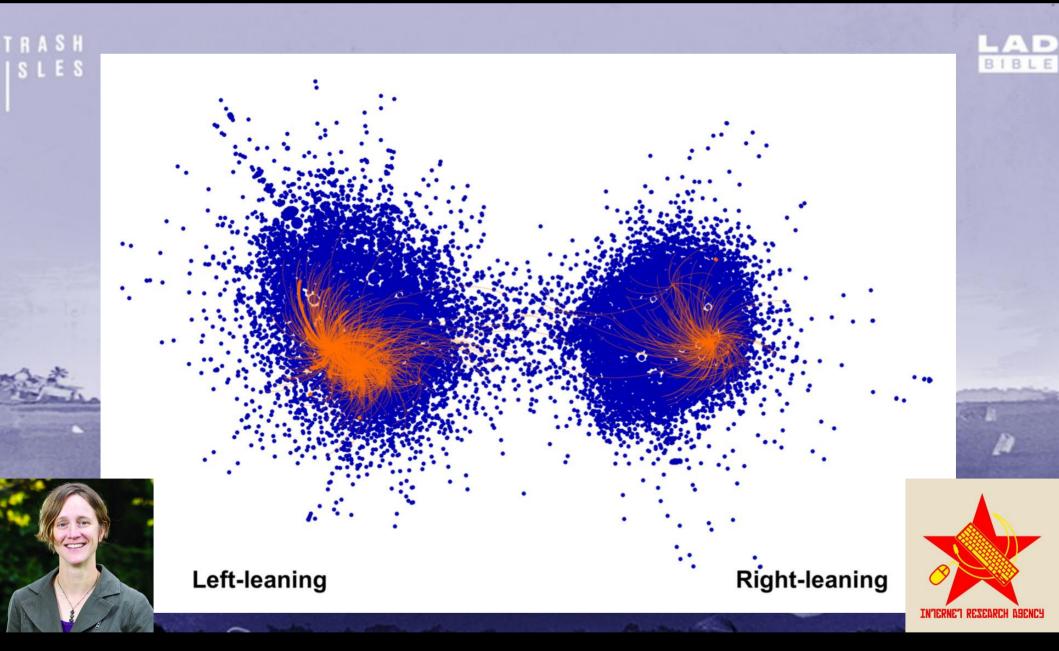
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- Different views, same (awful) debating quality

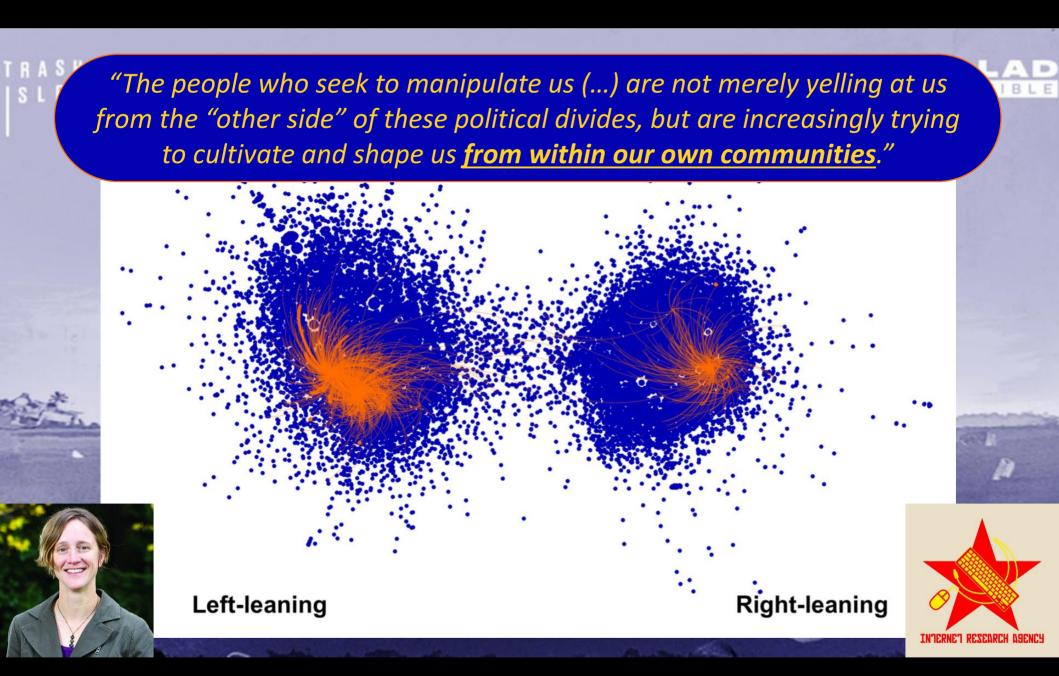
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This *kind of debates* are **naturally conducive of fake news**, whether they are based on them or not to begin with

Starbird: IRA in #BlackLivesMatter



Starbird: IRA in #BlackLivesMatter





This morning my son Andrea asks me "daddy, how come you are making your cultural background and skills available here in Guatemala and not in Italy?"

I answer him with the first sentiment I felt in that moment, that is, humility: "You see Andrea, in Italy I left a part of me. A part made for one half of resourcefulness and for the other half of honesty. This part of me has a name, and it is called Luigi Di Majo.

My wife Sahra, who unbeknownst to me had listened to everything, enters the room and tells me "Alessandro, you may have bragged and told our son that you were instrumental to the success of the Five Stars Movement. But you didn't fall prey of an egotistic attitude, and for that I thank you, because you have just taught our son the concept of humility".

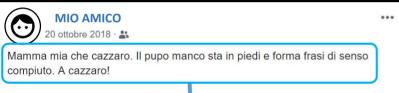
This is our family. This is our way of life. This is the Italy that we want.

#governmentofchange











My goodness what a jackass. The baby cannot even stand and he is forming complete sentences. Jackass!

Alessandro Di Batista

16 ottobre 2018 · 🕥

Stamattina mio figlio Andrea mi chiede "papà, come mai stai mettendo a disposizione il tuo bagaglio culturale e le tue competenze qui in Guatemala e non in Ital... Altro...

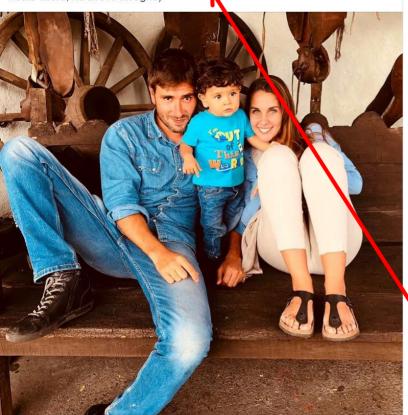
Tizio Casuale e altri 14

Commenti: 17

- My friend not only commented the post, but also re-posted it on his wall - and thus I saw it on my wall
- At first I fully share his disparaging comment...



Mamma mia che cazzaro. Il pupo manco sta in piedi e forma frasi di senso compiuto. A cazzaro! (correggo...pare sia una pagina satirica, grazie delle 4 risate allora, ne avevo bisogno)



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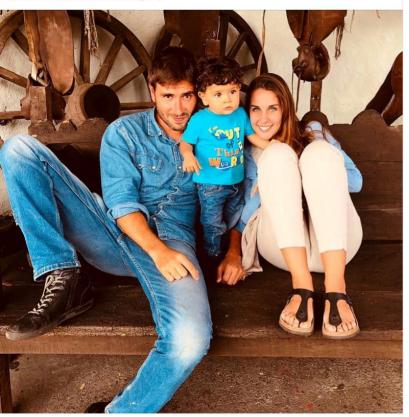
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Tizio Casuale e altri 14 Commenti: 17

- My friend not only commented the post, but also re-posted it on his wall and thus I saw it on my wall
- At first I fully share his disparaging comment...
- ... until I discovered (thanks to my wife) that it is a satirical account (Di Batista vs. Di Battista)
- My friend discovers it too: doesn't delete the post but admits the error
- "(correction... apparently it's a satirical page, thanks for the laugh then, I needed it)"



Mamma mia che cazzaro. Il pupo manco sta in piedi e forma frasi di senso compiuto. A cazzaro! (correggo...pare sia una pagina satirica, grazie delle 4 risate allora, ne avevo bisogno)



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Altro...

Tizio Casuale e altri 14 Commenti: 17

- In the comments to the post, he makes an interesting remark:
- "I rectified my post...disappointment or not, it is not correct and it is not right 1) to distribute bad information (social media doesn't help in that, as a matter of fact) 2) to avoid admitting a mistake (like my share). This said, unfortunately my view of them doesn't change: they are hypocritical, ignorant, incompetent and conceited. And unfortunately, by re-posting this thing, I wasn't much better than them, this bothers me a bit, yes."

FB parodies: frequent & bipartisan



Problems with friendly fire



RISKS

- More credible because coming from friendly / trustworthy sources
- More credible because congenial



COSTS

- Even when the «truth» is re-established, the parody works on in-group / out-group mechanisms → increased polarization
- It creates additional noise especially when the boundaries of parody are unclear / fuzzy

Friendly fire as a manipulation tool

HOME > POLITICS > POLITICS FEATURES

NOVEMBER 25. 2019 9:02AM ET



That Uplifting Tweet You Just Shared? A Russian Troll Sent It

Here's what Russia's 2020 disinformation operations look like, according to two experts on social media and propaganda.

Bu DARREN LINVILL & PATRICK WARREN









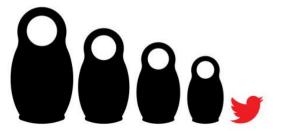




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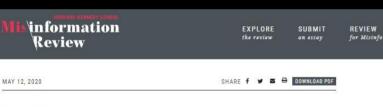


Professional trolls are good at their job. (...) The professionals know you catch more flies with honey. They don't go to social media looking for a fight; they go looking for new best friends. (...) Disinformation operations aren't typically fake news or outright lies. Disinformation is most often simply spin.

Spin is hard to spot and easy to believe, especially if you are already inclined to do so. (...) Professional disinformation isn't spread by the account you disagree with — quite the opposite. Effective disinformation is embedded in an account you agree with. The professionals don't push you away, they pull you toward them.



Friendly fire as a manipulation tool



COMMENTARY

Signs of a new world order: Italy as the COVID-19 disinformation battlefield

When Italy became the western center of the COVID-19 outbreak, it also became the focus of a series of states-sponsored coordinated disinformation campaigns. From early March through May 2020, disinformation operations in the country have increased noticeably, showing evidence of evolving strategies from multiple state actors geared towards reshaping the narrative of the global COVID-19 crisis and pushing forward geopolitical interests. Such campaigns may be a sign of things to come with Italy as a critical battleground subject to state-sponsored disinformation operations, acting as a gauge of power relations particularly between the United States, Russia, the EU, and China.

BY COSTANZA SCIUBBA CANIGLIA

Harvard Kennedy School Misinformation
Review





- Manipulation is often framed non-aggressively
- information campaigns to use their international aids for COVID as an opportunity to improve their image and fuel skepticism / resentment towards local administrations and international competitors, i.e. the US and the EU

Argumentation & FNs: so what?



First, let's avoid some pitfalls

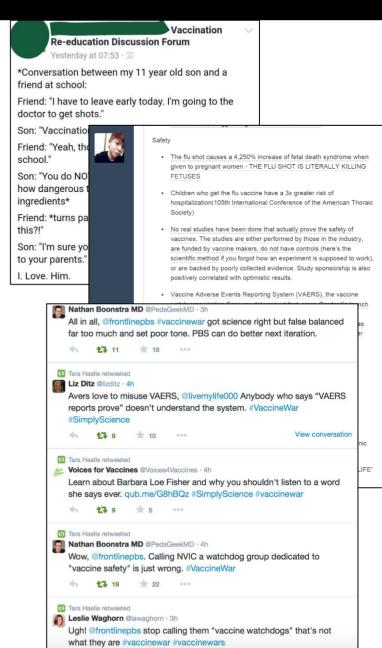


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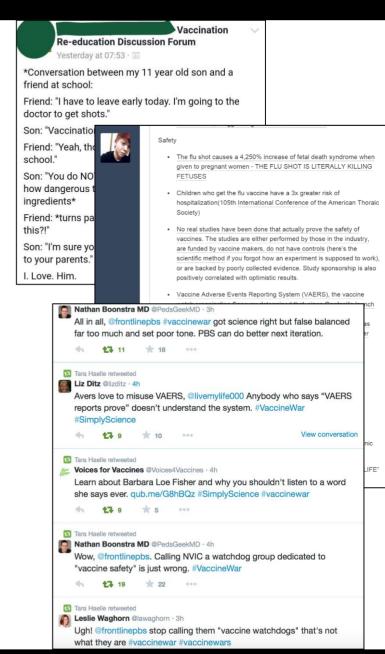
The quality illusion

 False start n. 1: good reasoners argue differently from bad reasoners, therefore we can leverage differences in argument structure for fake news detection



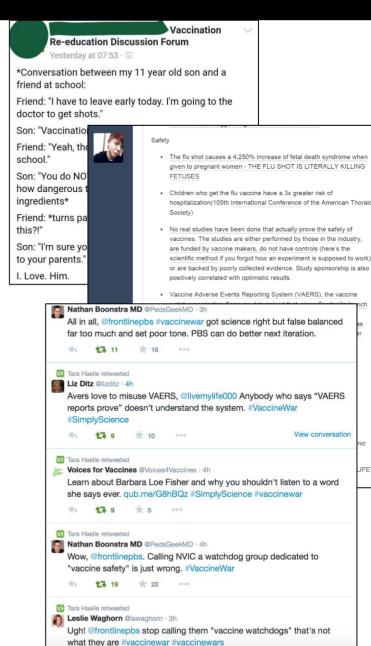
The quality illusion

- False start n. 1: good reasoners argue differently from bad reasoners, therefore we can leverage differences in argument structure for fake news detection
- Really? Compare:
 - According to the website <u>www.safeyourkidsfrombigpharma.com</u>, vaccines are very dangerous!
 - According to The Lancet, vaccines are essential to public health!
- Structurally identical



The quality illusion

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- Really? Compare:
 - According to the website <u>www.safeyourkidsfrombigpharma.com</u>, vaccines are very dangerous!
 - According to The Lancet, vaccines are essential to public health!
- Structurally identical
- Big difference: the kind of source considered relevant, which is not about argumentation



The quantity illusion

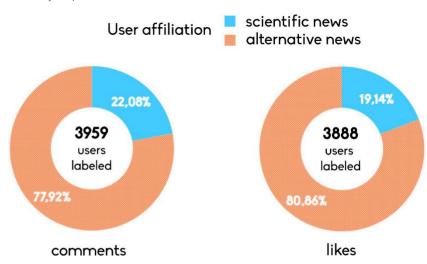
 False start n. 2: good reasoners argue more than bad reasoners, then argument counting can support better fake news detection

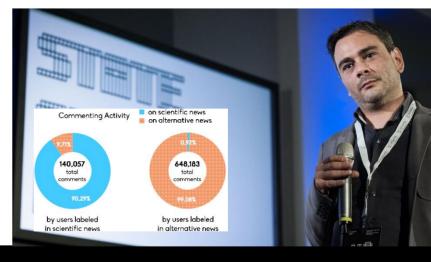
The quantity illusion

- False start n. 2: good reasoners argue more
 than bad reasoners, then argument counting
 can support better fake news detection
- Really? FNs supporters can be as argumentative as their opponents, and in fact empirical evidence suggest the former argue online more than the latter

	Total	Science News	Conspiracy News
Pages	73	34	39
Posts	271,296	62,705	208,591
Likes	9,164,781	2,505,399	6,659,382
Comments	1,017,509	180,918	836,591
Likers	1,196,404	332,357	864,047
Commenters	279,972	53,438	226,534

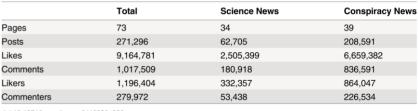
doi:10.1371/journal.pone.0118093.t003



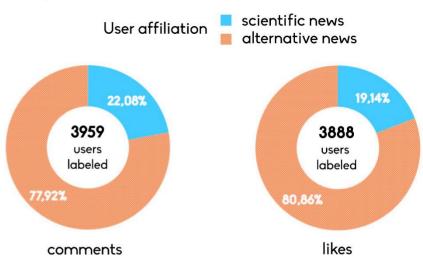


The quantity illusion

- False start n. 2: good reasoners argue more than bad reasoners, then argument counting can support better fake news detection
- Really? FNs supporters can be as argumentative as their opponents, and in fact empirical evidence suggest the former argue online more than the latter
- Will it work the other way around?
- NO, because:
 - Easier things to count (comments, likes)
 - Still highly imprecise metrics
 - FNs supported by <u>both</u> <u>credulous</u>
 acceptance of uncredited sources and unreasonable skepticism of authorities



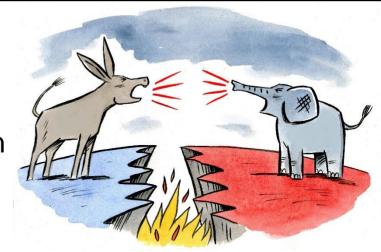
doi:10.1371/journal.pone.0118093.t003





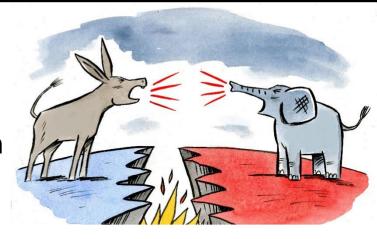
The open dialogue illusion

 False start n. 3: fake news thrive for lack of critical scrutiny, thus we need to make people with opposing views talk to each other on controversial topics, so that argumentation can lead to a reasonable resolution



The open dialogue illusion

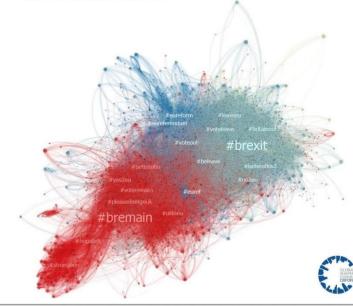
- False start n. 3: fake news thrive for lack of critical scrutiny, thus we need to make people with opposing views talk to each other on controversial topics, so that argumentation can lead to a reasonable resolution
- Not only it does <u>not</u> work, it actually **backfires**quite spectacularly! Cf. Quattrociocchi et al. on
 polarization and the downside of fact-checking
- Two main <u>problems</u>:
 - People do not willingly self-expose themselves to conflicting views
 - When presented with contrary evidence or debunking narratives, this increases polarization, instead of reducing it



The EU referendum debate in the UK

Mapping polarization on social media

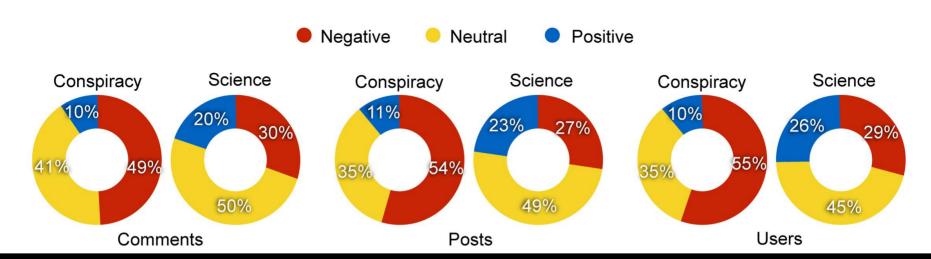
Semantic network analysis of 13,310 co-occurring hashtags on Instagram related to the UK's EU referendum debate



Source: Data visualisation and analysis provided by Vyacheslav Polonski, a Global Shaper from the Oxford F

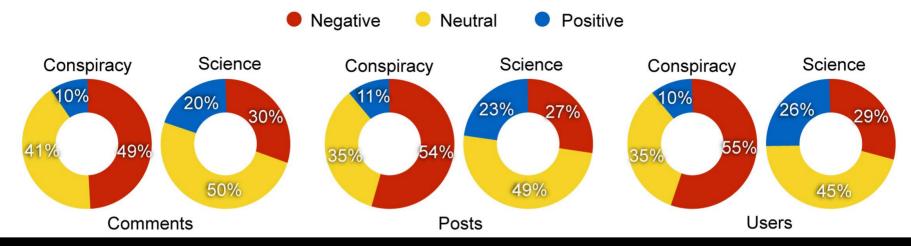
Interlude: angry people love FNs

Empirical evidence: see Zollo et al., 2015



Interlude: angry people love FNs

- Empirical evidence: see Zollo et al., 2015
- Explain <u>why</u> fake news are so attractive for certain people (e.g., the downtrodden) and in certain times (e.g., economical crisis, pandemic)
- FNs basic narrative offers:
 - a scapegoat (Big Pharma, corrupted politicians, the Elders of Zion, etc.)
 - an easy fix (do not vaccinate your kids, vote some random New Person, don't trust the Jews, forget about COVID, etc.)
 - freedom from blame (on the contrary, people as free-thinking heroes)



Is argumentation doomed to fail with FNs?



Creativity is key for ATs success with FNs

- First impression: very <u>little</u> argumentation in the traditional sense
- However, to deal with this fake news we had to practice several **SKILLS** that are crucial for being a good arguer
- Abstract description:
 - attention
 - analysis
 - inference
 - comparison
 - evaluation... and more!

CONSENSUS LIST OF CT C SKILL	OGNITIVE SKILLS AND SUB-SKILLS SUB-SKILLS
1. Interpretation	Categorization
•	Decoding Significance
	Clarifying Meaning
2. Analysis	Examining Ideas
	Identifying Arguments
	Analyzing Arguments
3. Evaluation	Assessing Claims
	Assessing Arguments
4. Inference	Querying Evidence
	Conjecturing Alternatives
	Drawing Conclusions
5. Explanation	Stating Results
	Justifying Procedures
	Presenting Arguments
6. Self-Regulation	Self-examination

Self-correction



Creativity is key for ATs success with FNs

A more concrete list:

- Asking questions
- Checking and comparing sources
- Reflecting on the technology and learning how to use it
- Keeping an open mind on data and practicing multiple epistemic attitudes
- Deciding whether and how to share your findings / views
- Contributing to online information

	SNITIVE SKILLS AND SUB-SKILL
SKILL 1. Interpretation	SUB-SKILLS Categorization
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How to convert that into ATs?

 Reasonable doubt: "Fine, but that's mostly about education – how does it translate to developing better argument technologies?"

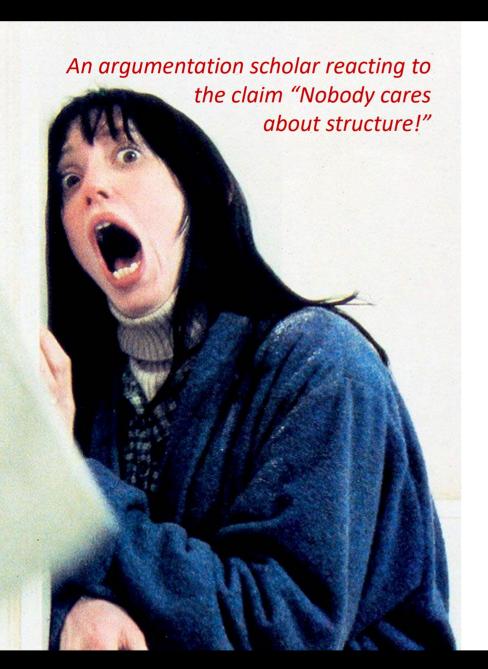


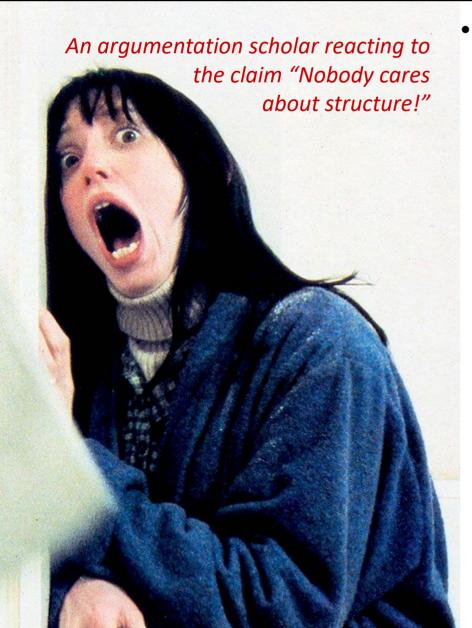
Paglieri: Argument technologies and online disinformation | SSA 2020

How to convert that into ATs?

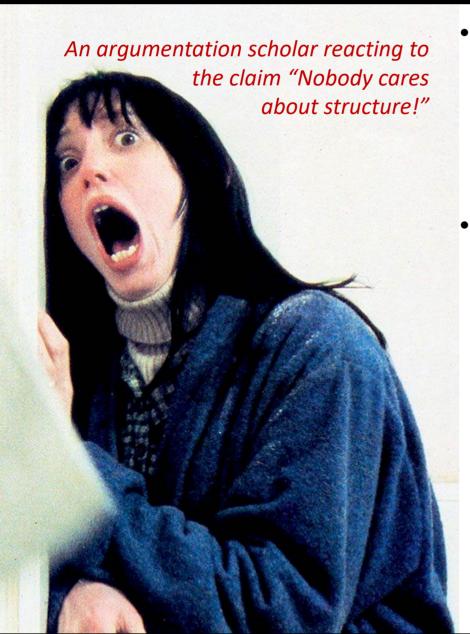
- Reasonable doubt: "Fine, but that's mostly about education how does it translate to developing better argument technologies?"
- Two cardinal principles:
 - Polarization is the enemy!
 - Nobody really cares about structure!



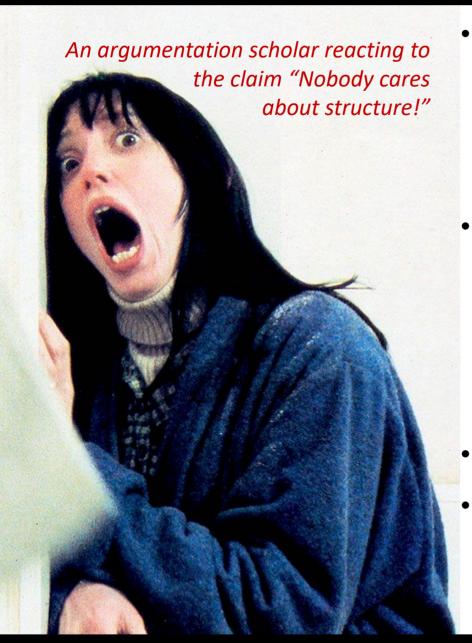




Argumentation is ALL about structure:
 e.g., a network of claims in an abstract
 argumentation framework, or the
 premise-conclusion relationship in
 structured argumentation approaches



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- Don't forsake structure, but remember that end users of argument technologies have no particular interest in argument structures, and that making them aware of such structures will most likely turn them away from that technology!



- Argumentation is ALL about structure: e.g., a network of claims in an abstract argumentation framework, or the premise-conclusion relationship in structured argumentation approaches
- Don't forsake structure, but remember that end users of argument technologies have no particular interest in argument structures, and that making them aware of such structures will most likely turn them away from that technology!
- So: keep your structure in your pants!
 - Use it to make your app, tool, or widget work, but don't assume you need to make it explicit for your users: you don't, and often you shouldn't either!

ATs as habit formation

Your task: to encourage virtuous argumentative habits in users, while discouraging negative ones

Hint: take a concrete problem and find a practical solution

Now, three good examples



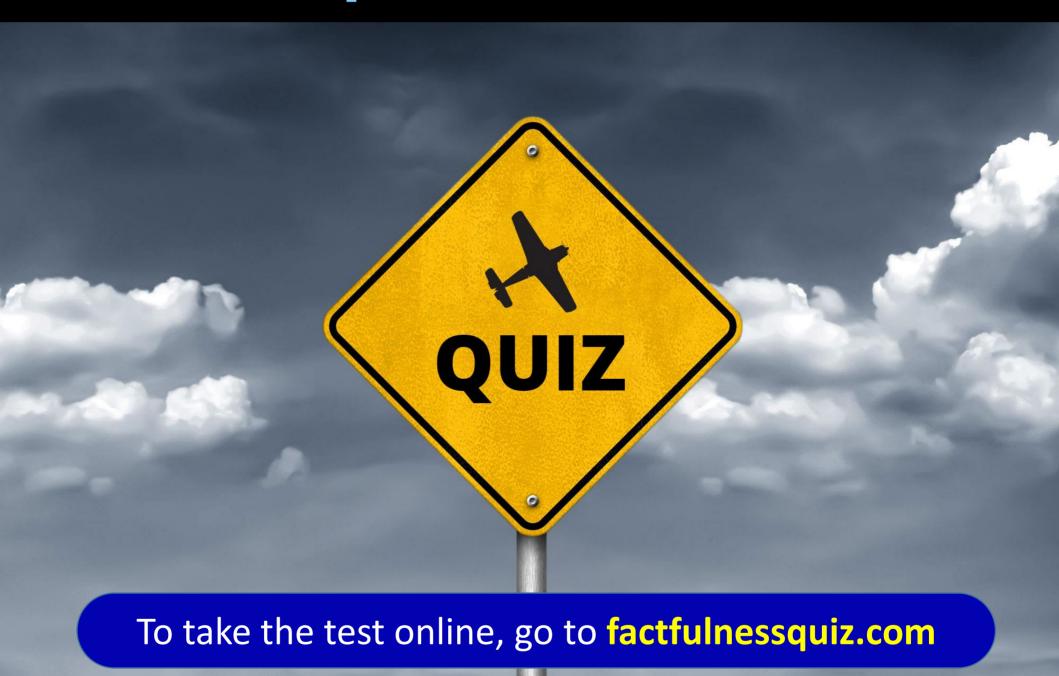
Problem: acknowledging ignorance

Problem 1

How do we make **people aware of their epistemic deficits** without immediately putting them in a **defensive position**?

In other words, how do we even begin a discussion on the limits of our knowledge without feeding into polarization?





Question	Answer
1	С
2	В
3	C
4	C
5	С
6	В
7	С
8	Α
9	С
10	Α
11	С
12	С
13	Α



Question	Answer
1	С
2	В
3	С
4	С
5	С
6	В
7	С
8	Α
9	С
10	Α
11	С
12	С
13	Α

2017: about 12000 people tested in 14 countries Average: 2 points (except 13) QUIZ

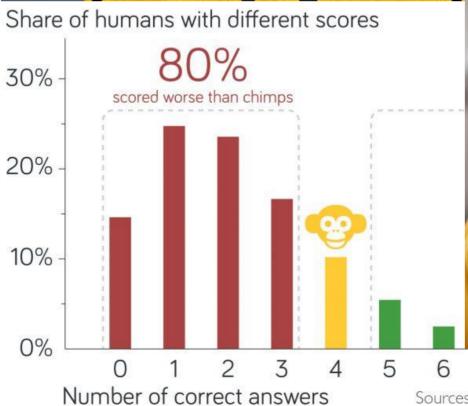
Question	Answer	
1	С	2017: about 12000 people
2	В	tested in 14 countries
3	С	Average: 2 points (except 13)
4	C	
5	C	
6	В	Share of humans with different scores 10%
7	С	30% - Scored worse than chimps scored better than chimps
8	Α	20% -
9	С	2076
10	Α	10% -
11	C	
12	C	O% One person None
13	Α	0 1 2 3 4 5 6 7 8 9 10 11 12 Number of correct answers Sources: Novus and Ipsos MORI. See: gapm.io/gms I 7r

Question	Answer
1	С
2	В
3	С
4	С
5	С
6	В
7	С
8	A
9	С
10	Α
11	С
12	С
13	Α

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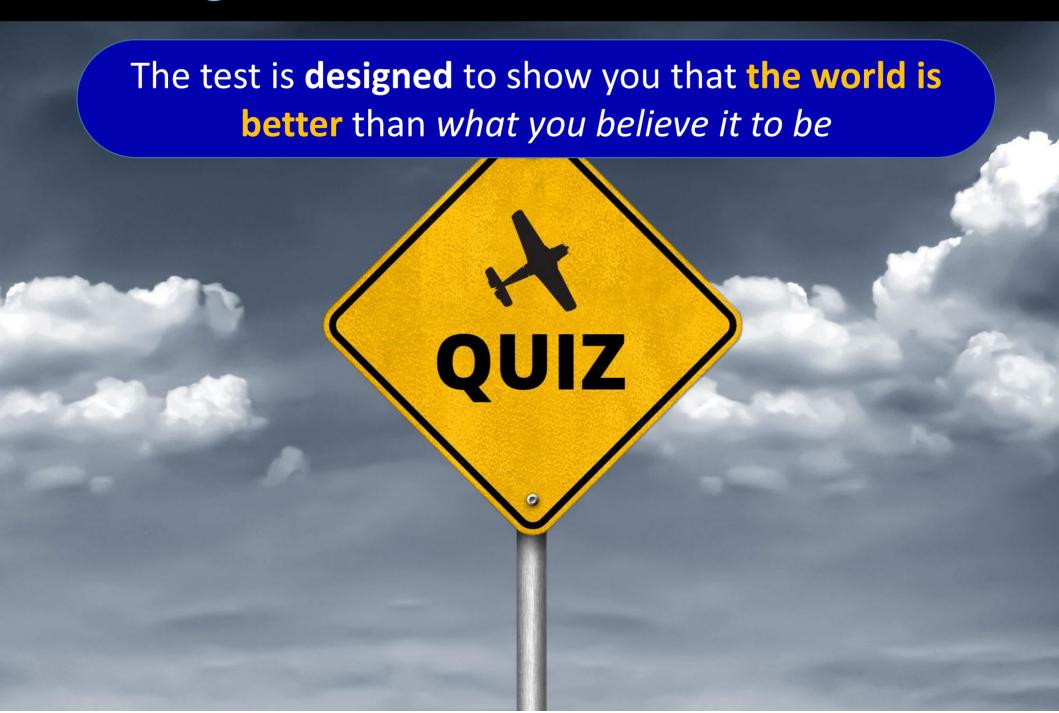
Average: 2 points (except 13)







The argumentative value of the test



The argumentative value of the test

The test is **designed** to show you that **the world is** better than what you believe it to be

This is <u>clever</u>, because the <u>negative emotion</u> triggered by <u>being proved wrong</u> is <u>compensated</u> by the <u>positive emotion</u> associated with the <u>good</u> <u>news vibe</u> of the test

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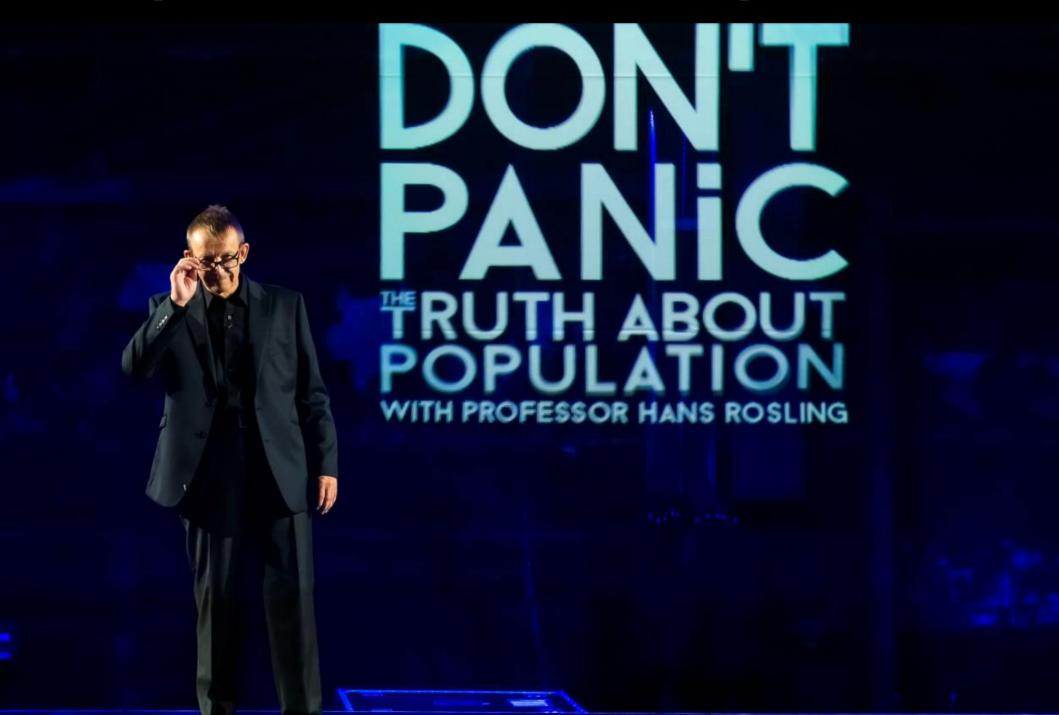
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Hence the whole experience is *more likely to induce* users to listen with an open-mind, instead of immediately getting defensive

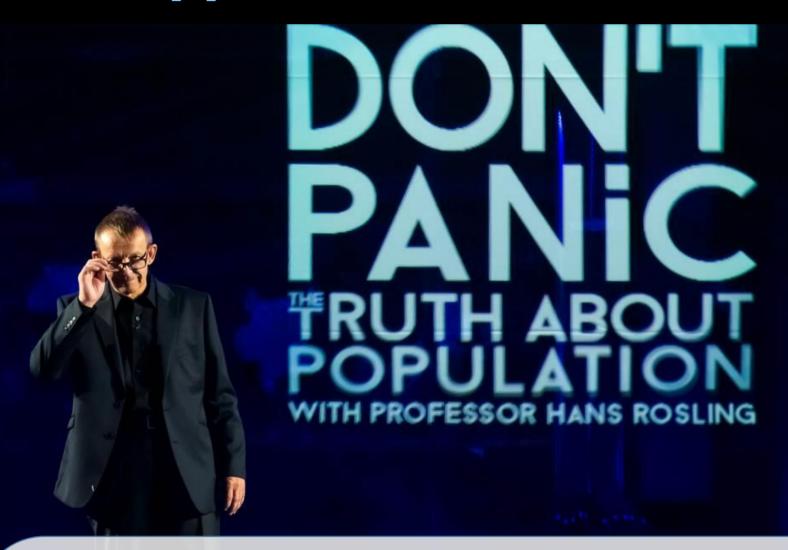
A Swedish sword-swallowing physician



Optimism on the Anthropocene?



Or an appeal to fact-based debate?



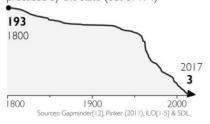
FACTFULNESS: The *stress-reducing habit* of <u>only</u> carrying opinions for which you have **strong supporting facts**

Bad things decreasing

16 BAD THINGS DECREASING

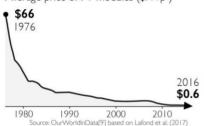
LEGAL SLAVERY

Countries where forced labor is legal or practiced by the state (out of 194)



EXPENSIVE SOLAR PANELS

Average price of PV modules (\$/Wp)



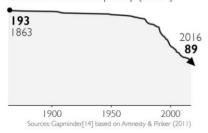
CHILDREN DYING

Percent dying before their fifth birthday



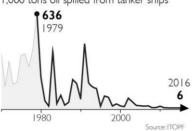
DEATH PENALTY

Countries with death penalty (of 194)



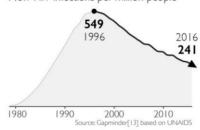
OIL SPILLS

1.000 tons oil spilled from tanker ships



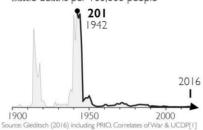
HIV INFECTIONS

New HIV infections per million people



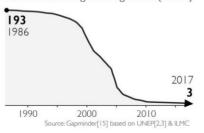
BATTLE DEATHS

Battle deaths per 100,000 people



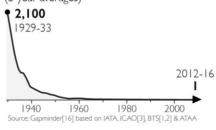
LEADED GASOLINE

Countries allowing lead in gasoline (of 194)



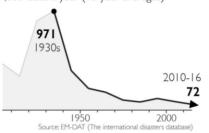
PLANE CRASH DEATHS

Deaths per 10 billion passenger miles (5-year averages)



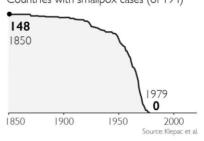
DEATHS FROM DISASTER

1.000 deaths/year (10-year averages)



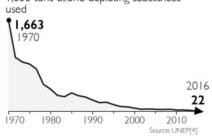
SMALLPOX

Countries with smallpox cases (of 194)



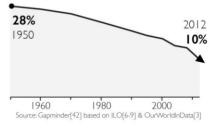
OZONE DEPLETION

1,000 tons ozone-depleting substances



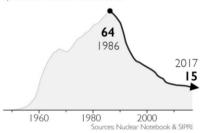
CHILD LABOR

Share of children aged 5-14 who work full time under bad conditions



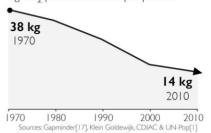
NUCLEAR ARMS

1.000s of nuclear warheads



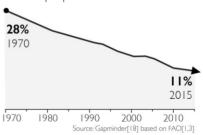
SMOKE PARTICLES

Kg SO₂ particles emitted per person



HUNGER

Share of people undernourished

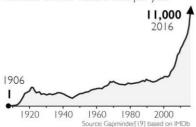


Good things increasing

16 GOOD THINGS INCREASING

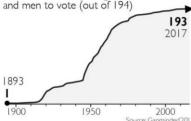
NEW MOVIES

Number of new feature films per year



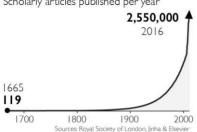
WOMEN'S RIGHT TO VOTE

Countries with equal rights for women and men to vote (out of 194)



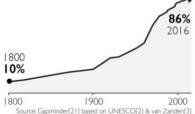
SCIENCE

Scholarly articles published per year



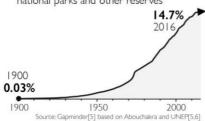
LITERACY

Share of adults (15+) with basic skills to read and write



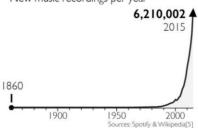
PROTECTED NATURE

Share of Farth's land surface protected as national parks and other reserves



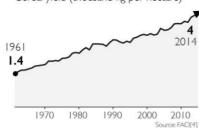
NFW MUSIC

New music recordings per year



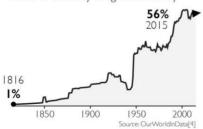
HARVEST

Cereal yield (thousand kg per hectare)



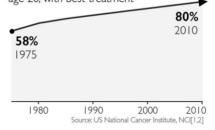
DEMOCRACY

Share of humanity living in democracy



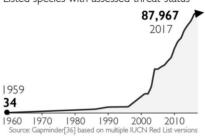
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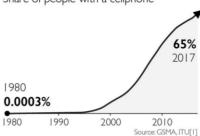
MONITORED SPECIES

Listed species with assessed threat-status



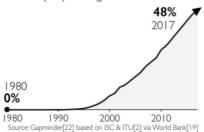
MOBILE PHONES

Share of people with a cellphone



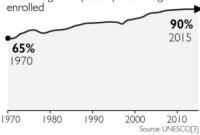
INTERNET

Share of people using the internet



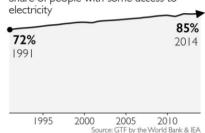
GIRLS IN SCHOOL

Share of girls of primary school age



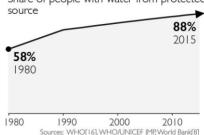
ELECTRICITY COVERAGE

Share of people with some access to



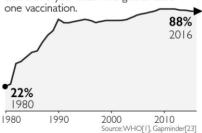
WATER

Share of people with water from protected



IMMUNIZATION

Share of I-year olds who got at least

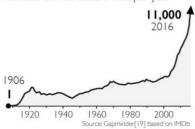


Good things increasing

16 GOOD THINGS INCREASING

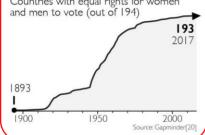
NEW MOVIES

Number of new feature films per year



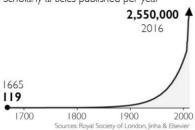
WOMEN'S RIGHT TO VOTE

Countries with equal rights for women and men to vote (out of 194)



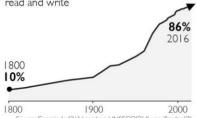
SCIENCE

Scholarly articles published per year



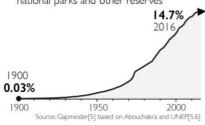
LITERACY

Share of adults (15+) with basic skills to read and write



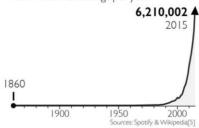
PROTECTED NATURE

Share of Farth's land surface protected as national parks and other reserves



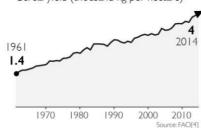
NFW MUSIC

New music recordings per year



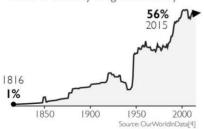
HARVEST

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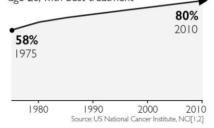
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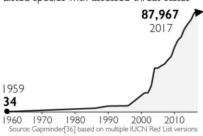
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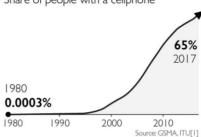
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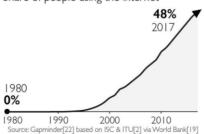
MOBILE PHONES

Share of people with a cellphone



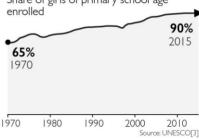
INTERNET

Share of people using the internet



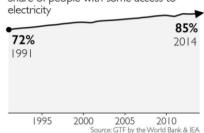
GIRLS IN SCHOOL

Share of girls of primary school age



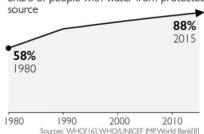
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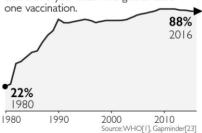
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IMMUNIZATION

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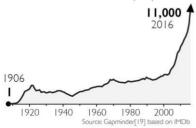


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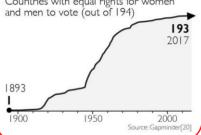
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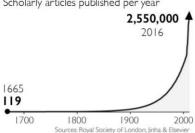


WOMEN'S RIGHT TO VOTE Countries with equal rights for women



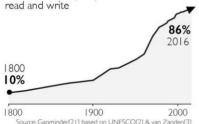
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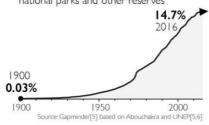
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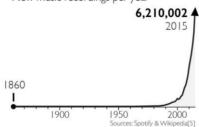
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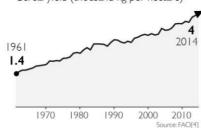
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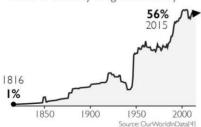
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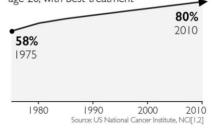
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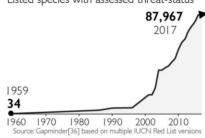
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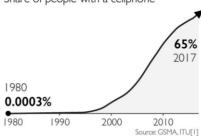
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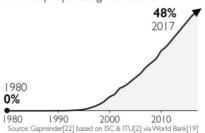
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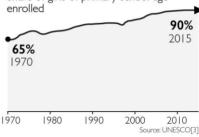
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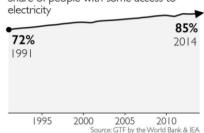
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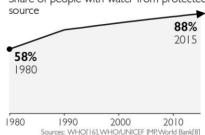
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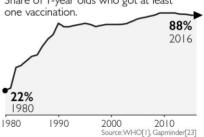
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IMMUNIZATION

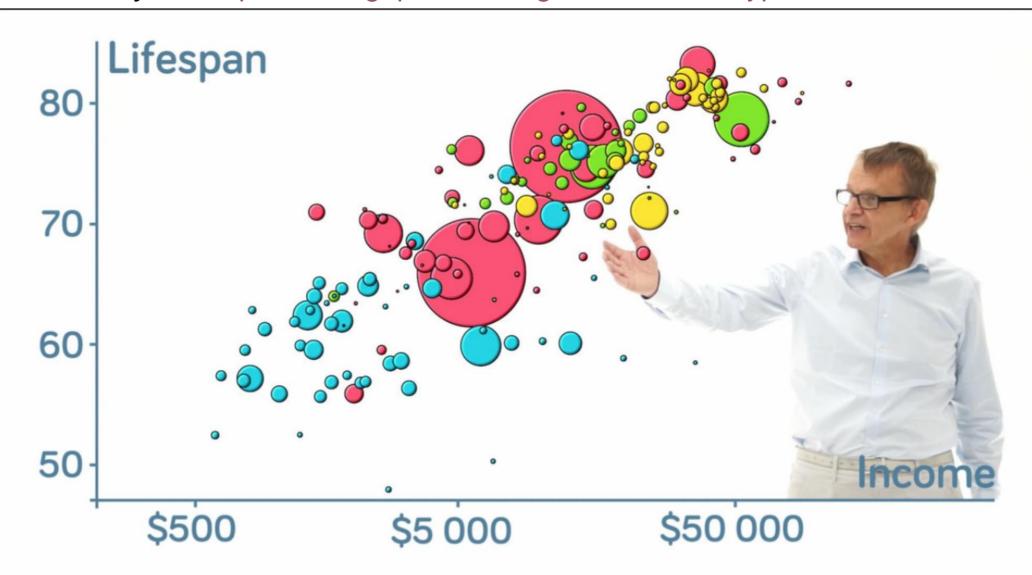
Share of I-year olds who got at least





Data visualization: Gapminder

Gapminder and its software for dynamic visualization of world data,
 Trendalyzer: https://www.gapminder.org/tools/#\$chart-type=bubbles



Diagnosis: dramatic instincts

FACTFULNESS POSTER

Dramatic Instincts

1 The gap instinct



Look at the gap!

3 The Straight Line Instinct



It just continues!

5 The Size Instinct



7 The Destiny Instinct



It never changes!

9 The Blame Instinct



2 The Negativity Instinct



It's getting worse!

4 The Fear Instinct



It's scary!

6 The Generalization Instinct



They are all the same!

The Single Perspective Instinct



This is the solution!

10 The Urgency Instinct



It's now or never

Prognosis: factfulness in action

FACTFULNESS POSTER Dramatic Instincts

The gap instinct



Look at the gap!

5 The Straight Line Instinct



It just continues!

5 The Size Instinct



/ The Destiny Instinct



It never changes!

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That's the bad guy!

2 The Negativity Instinct



It's aettina worse!

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They are all the same!

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This is the solution!

1 The Urgency Instinct







FACTFULNESS

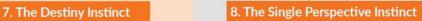
FACTFULNESS

9. The Blame Instinct

THE INSTINCT









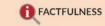




















Problem: getting users' hands dirty

Problem 2

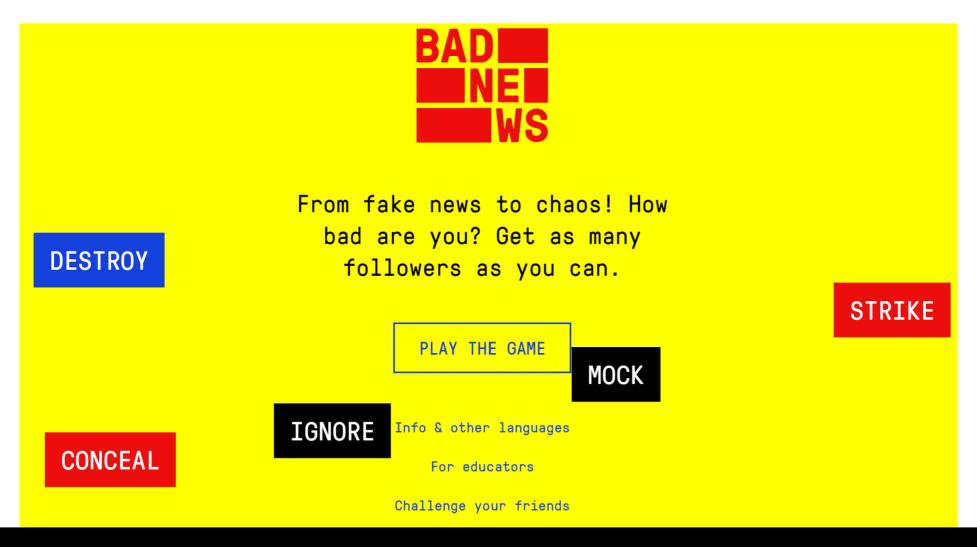
How do we familiarize users with the strategies and tricks behind disinformation, without either boring them to death with a patronizing attitude, or reinforcing their impression that the world is an awful place and the Internet a cesspool of corruption?



Embracing fake news

https://www.getbadnews.com/

An online game to learn how to be an effective disinformation agent



Bad News: a walk on the wild side

How does Bad News work?

In Bad News, you take on the role of fake news-monger. Drop all pretense of ethics and choose a path that builds your persona as an unscrupulous media magnate. But keep an eye on your 'followers' and 'credibility' meters. Your task is to get as many followers as you can while slowly building up fake credibility as a news site. But watch out: you lose if you tell obvious lies or disappoint your supporters!

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Badges of dishonor













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Badges of dishonor















This game was developed by researchers at Cambridge University and DROG, a Netherlands-based platform against disinformation. For more information about the game and its development, or if you have ideas or feedback, we're very happy to hear from you. Ruurd Oosterwoud, founder of DROG, can be reached at ruurd@wijzijndrog.nl. Or visit DROG's website at www.aboutbadnews.com

How does it work?

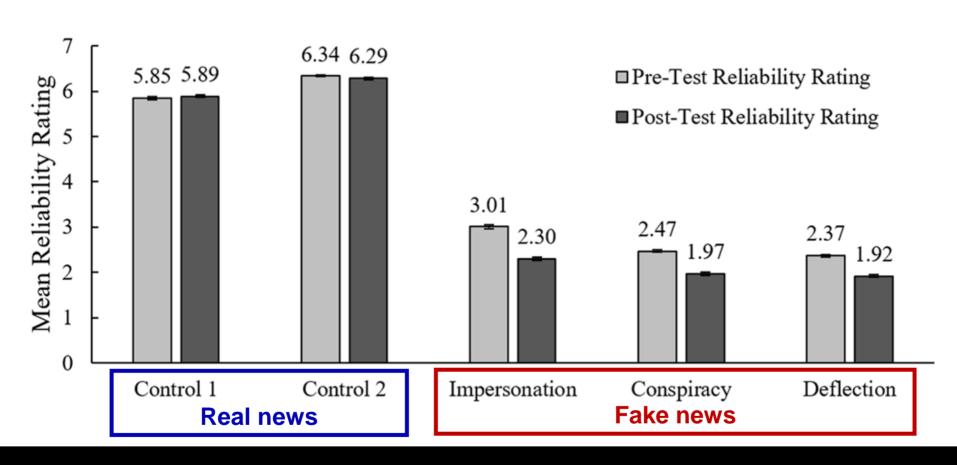


A good way to fight bad news

- INOCULATION THEORY: people are able to build up a resistance against disinformation by being presented with a weakened version of a misleading argument <u>before</u> being exposed to the "real thing" – like a vaccine
- Best way to learn to recognize disinformation is to create it yourself. Users
 take on the role of fake news-mongers, to gain insight into the tactics and
 methods used by 'real' disinformants: this in turn builds up resistance

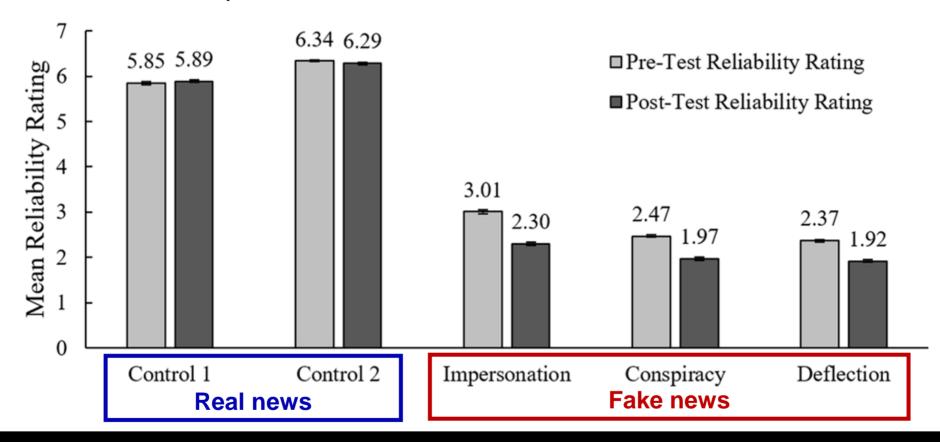
By the way, it does work!

Roozenbeek & van der Linden, 2019: users (N > 14K!) ability to detect fake news improved significantly after playing the game, without making them more skeptical towards real news too



By the way, it does work!

- Roozenbeek & van der Linden, 2019: users (N > 14K!) ability to detect fake news improved significantly after playing the game, without making them more skeptical towards real news too
- Moreover, the largest effects were on users who were most vulnerable to fake news on the pre-test — it works best for those who need it!



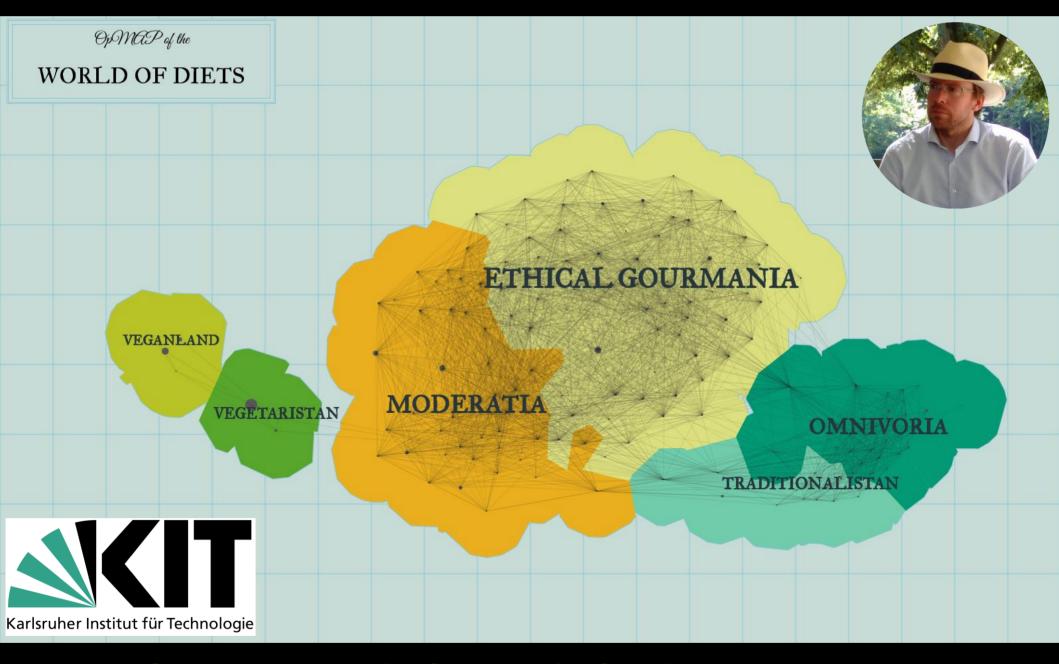
Problem: visualization without polarization

Problem 3

How do we exploit all the structural information we collect doing argumentative analysis of complex debate, in ways that are relevant for users and do not promote further polarization?



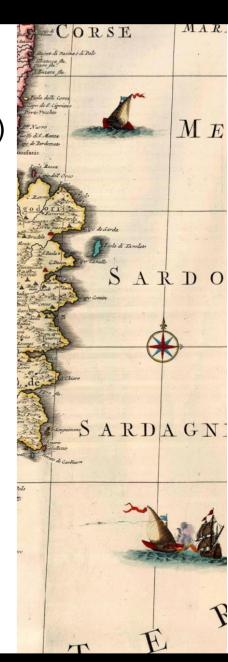
OpMAP: argument cartographies



OpMAP pipeline

OpMAP aims to facilitate sense-making for large-scale debates

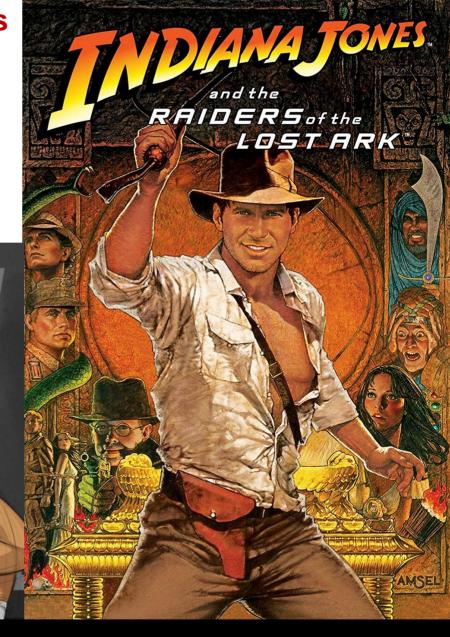
- First, the debate is reconstructed, i.e. its arguments are analyzed and formalized, using Argdown (https://argdown.org/) for argument mapping
- Second, the *logical analysis* is used to construct a structured survey, which serves to *elicit users' complex opinions* on the debate's topic
- Third, the collected opinion data is translated into an opinion graph: the nodes of this graph are the opinions held by the participants of the survey, and the weighted edges specify how closely related these opinions are (using degree of mutual coherence to calculate it)
- Then, the resulting weighted graph is analyzed by applying clustering and filtering methods
- The initial map of the debate is then constructed
- Finally, OpMAP allows for dynamic updates of the map



How would OpMAP improve debate?

- OpMAP promotes a shift from argument as war to argument as exploration
- Users as neutral visitors to see the many different features of the land (i.e., various facets of the problem), instead of framing users as partisans within a fight





Concluding remarks









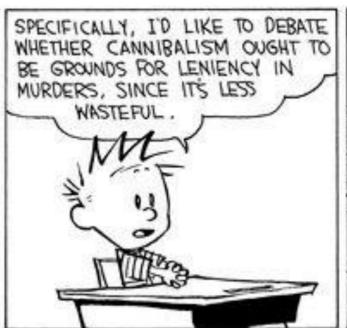
Paglieri: Argument technologies and online disinformation | SSA 2020



Is this even about ATs?

- The examples of virtuous argument technologies we discussed are all rather non-standard
- With the exception of OpMAP, which is based on some good-old fashioned argument analysis, many of them would not even be considered as argument technologies by most







Go beyond the obvious!



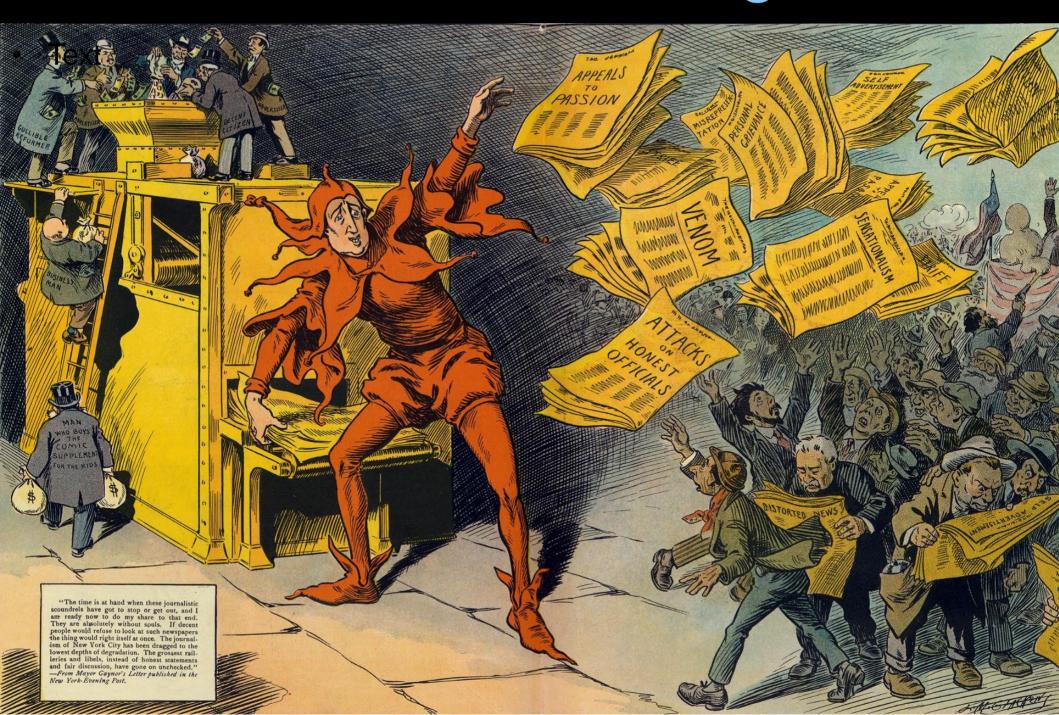
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- My broad definition of argument technologies: any technology that systematically improves the quality of human dialogue and reasoning

Go beyond the obvious!

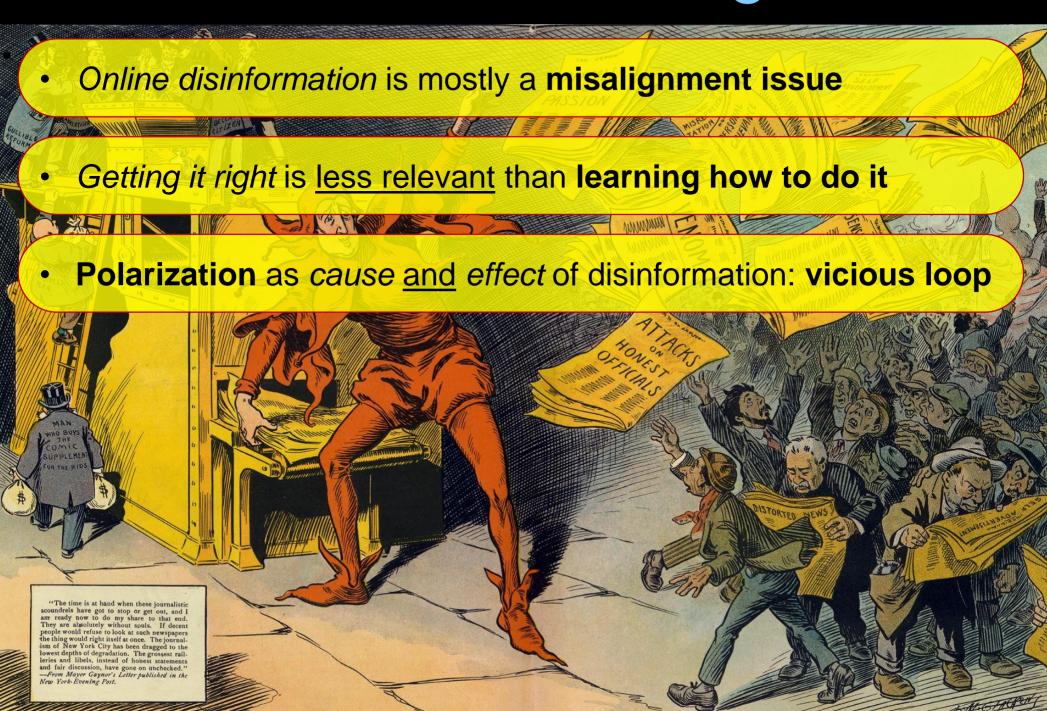


- I don't care much about what is "kosher" in argument technologies, and I invite you to care even less
- My broad definition of argument technologies: any technology that systematically improves the quality of human dialogue and reasoning
- Whether you accept such definition or not, you still need to be creative and think outside the box, especially when engaged in developing applications
- There are real, important problems to be solved out there, and whatever you can do to help is vastly more relevant than tinkering with old, ineffective approaches
- <u>Don't</u> do something simply because *it has always been done that way*, do it because **you think it works**!

Take home messages



Take home messages



Take home messages

- Online disinformation is mostly a misalignment issue
- Getting it right is less relevant than learning how to do it
- Polarization as cause and effect of disinformation: vicious loop
- Technology as a tool for habit formation
- I repeat: keep your argumentative structure in your pants!
- First find a real problem, then start thinking about how to fix it

Good tech to improve argumentation differ from regular ATs...

End titles



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