

Algorithms are everywhere:

- Communication/Language.
- Economic systems (Shiller: "Narrative Economics" [19])
- Legal systems.
- Social norms, customs, cultures.
- Food: growing, harvesting, preparing, distribution, ...
- Safety codes and protocols
- Military.
- Stories ...

The PoCSverse
What's the Story?
21 of 84
Storytellers

Stories

Conspiracy theories

Power

Taxonomy

Essence

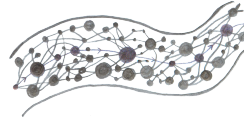
Emotional Arcs

Moving ahead

References

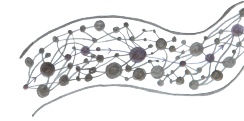
Why adjacent narratives exist and untrue stories flourish:

- 1/4. A real story is never recorded and retold completely
 - Impossible to record every detail.
 - Recording entails compression to scale of medium (narrative hierarchy).
 - Story logic will be favored, and seemingly irrelevant aspects discarded.



Why adjacent narratives exist and untrue stories flourish:

- 4/4. Character is the shortcut to story
 - The barely implausible can be believed if the character can make it so.
 - A believe-to-be evil character can do anything.
 - Iterate between character and story to make the character fixed.



The PoCSverse
What's the Story?
28 of 84
Storytellers

Stories

Conspiracy theories

Power

Taxonomy

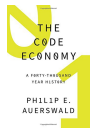
Essence

Emotional Arcs

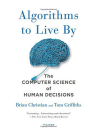
Moving ahead

References

Algorithms, recipes, stories, ...



"The Code Economy: A Forty-Thousand Year History" [a](#) [g](#)
by Philip E Auerswald (2017). [2]



"Algorithms to Live By" [a](#) [g](#)
by Christian and Griffiths (2016). [8]



"Once Upon an Algorithm" [a](#) [g](#)
by Martin Erwig (2017). [11]

The PoCSverse
What's the Story?
22 of 84
Storytellers

Stories

Conspiracy theories

Power

Taxonomy

Essence

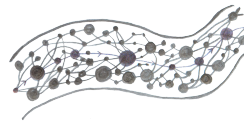
Emotional Arcs

Moving ahead

References

Why adjacent narratives exist and untrue stories flourish:

- 2/4. The infinitude of adjacent stories will afford "better" stories
 - Better = More engaging, more motivating to spread, more durable under spreading.
 - Better stories exist for truthful recorders and retellers (journalists).



The PoCSverse
What's the Story?
26 of 84
Storytellers

Stories

Conspiracy theories

Power

Taxonomy

Essence

Emotional Arcs

Moving ahead

References

Conspiracy theories

1999 Gallup poll: [g](#)

- 6% of Americans said the lunar landings were fake.
- 5% were undecided.
- Video replay [t](#)
- "The Comments, the comments, ..."

The PoCSverse
What's the Story?
29 of 84
Storytellers

Stories

Conspiracy theories

Power

Taxonomy

Essence

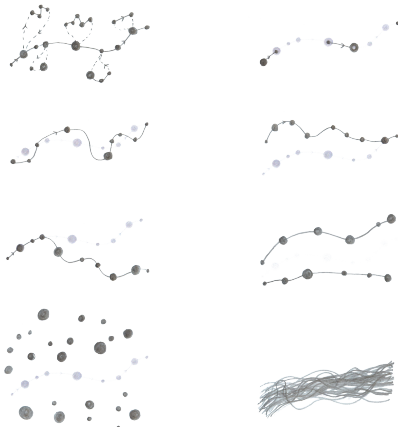
Emotional Arcs

Moving ahead

References

Also: Numerical Recipes in C [16] and How to Bake π [7]

Adjacent narratives — why mistruths and conspiracy theories exist and flourish:



The PoCSverse
What's the Story?
24 of 84
Storytellers

Stories

Conspiracy theories

Power

Taxonomy

Essence

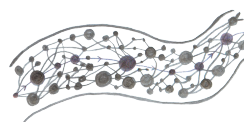
Emotional Arcs

Moving ahead

References

Why adjacent narratives exist and untrue stories flourish:

- 3/4. The infinitude of adjacent stories means "better" stories exist for those who would disinform
 - Adjacent stories may be truth-limited and/or falsehood-bearing.
 - There may exist adjacent stories that conform to a world view/ideology.
 - Even the seemingly non-adjacent must have some plausibility (Pizzagate).



The PoCSverse
What's the Story?
27 of 84
Storytellers

Stories

Conspiracy theories

Power

Taxonomy

Essence

Emotional Arcs

Moving ahead

References

JK Rowling doesn't exist: conspiracy theories the internet can't resist [g](#), The Guardian, 2017-10-27:

Highlights:

- The Earth is flat. <https://www.tfes.org> [g](#).
- The Beatles never existed: <http://www.thebeatlesneverexisted.com> [g](#).
- Per the title, JK Rowling doesn't exist.
 - Q. "Is it possible that a person can write six thick books that are translated into 55 languages and sell more than 250 million copies in less than 10 years? — Nina Grünfeld [g](#)"
 - A. "Yes. Yes it is."

The PoCSverse
What's the Story?
30 of 84
Storytellers

Stories

Conspiracy theories

Power

Taxonomy

Essence

Emotional Arcs

Moving ahead

References

Phantom time hypothesis

- The years 614–911 AD never existed.
- Straight up jump of 297 years orchestrated by a first millennium cabal.
- The year 2017 AD is really 1820 AD.
- Good to know.
- Holy Roman Emperor Otto III (@TheBoss37), Pope Sylvester II (@PSly2) wanted to live in 1000 AD, legitimize power.
- Crushed by reality: Records of solar eclipses, comets, dendrochronology.

The PoCSverse
 What's the Story?
 31 of 84
 Storytellers
 Stories
 Conspiracy theories
 Power
 Taxonomy
 Essence
 Emotional Arcs
 Moving ahead
 References

Poe's law

- In short: There is no parody too extreme that, when taken out of context, someone somewhere won't take to be sincere.
- Minor comment by Nathan Poe on christianforums.com:
"Without a winking smiley or other blatant display of humor, it is utterly impossible to parody a Creationist in such a way that someone won't mistake for the genuine article."
- Usual win for Stigler's Law of Eponymy.
- Post by Jerry Schwarz on Usenet, 1983:
'Avoid sarcasm and facetious remarks. Without the voice inflection and body language of personal communication these are easily misinterpreted. A sideways smile, :-), has become widely accepted on the net as an indication that "I'm only kidding." If you submit a satiric item without this symbol, no matter how obvious the satire is to you, do not be surprised if people take it seriously.'
- Related: "Nobody ever went broke underestimating the intelligence of the American people" — H. L. Mencken (but not exactly).

The PoCSverse
 What's the Story?
 32 of 84
 Storytellers
 Stories
 Conspiracy theories
 Power
 Taxonomy
 Essence
 Emotional Arcs
 Moving ahead
 References

Finland does not exist:

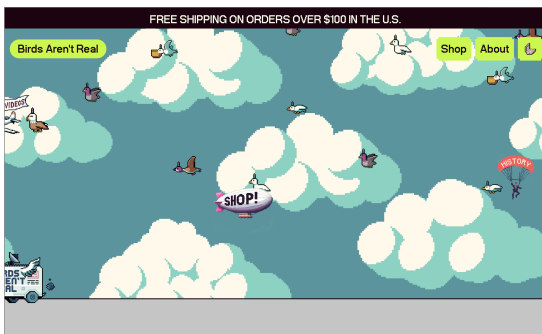


Stories influence people, for good or bad:

- Parasocial relationships (Cosplay)
- Allusionist 82. A Novel Remedy
- Agatha Christie type murder mysteries: A salve post the Great War.
- Representation matters—possible future paths (narrative hodology)

The PoCSverse
 What's the Story?
 33 of 84
 Storytellers
 Stories
 Conspiracy theories
 Power
 Taxonomy
 Essence
 Emotional Arcs
 Moving ahead
 References

Birds aren't real:



Stories influence people, for good or bad:

- But representation of good is accepted as real, representation of bad is "just entertainment"
- Columbine, references to Natural Born Killers (NBK)
- Natural Born Killers copycat crimes
- Aurora, Colorado shooting (Joker)

The PoCSverse
 What's the Story?
 34 of 84
 Storytellers
 Stories
 Conspiracy theories
 Power
 Taxonomy
 Essence
 Emotional Arcs
 Moving ahead
 References

Absence of story, meaning, sense:

Las Vegas, 2017/10/01:

- 60 murdered, over 400 injured, 1000 bullets.
- Marked the lowest point ever on the English Twitter Hedonometer at the time.
- Why did the Las Vegas shooter do what he did?
- Why have we forgotten about it?

The PoCSverse
 What's the Story?
 35 of 84
 Storytellers
 Stories
 Conspiracy theories
 Power
 Taxonomy
 Essence
 Emotional Arcs
 Moving ahead
 References



"The Written World: How Literature Shaped Civilization" by Martin Puchner (2017). [17]

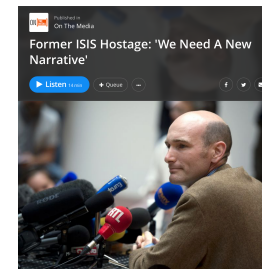
We are what we read (NYT)

"Storytelling is as human as breathing. When fabrication intersected with writing, stories were empowered to propagate themselves in society and around the world as civilization-forming "foundational texts."

- NYT review has a flicker of concern at the end that stories can be used for bad ...
- Common strawman frame: Stories as lightweight entertainment
- Not lighting up Google Scholar
- BBC, strawfree: How stories have shaped the world

The PoCSverse
 What's the Story?
 36 of 84
 Storytellers
 Stories
 Conspiracy theories
 Power
 Taxonomy
 Essence
 Emotional Arcs
 Moving ahead
 References

Story Wars:



Nicholas Hénin, French Journalist, held captive for 10 months

The PoCSverse
 What's the Story?
 38 of 84
 Storytellers
 Stories
 Conspiracy theories
 Power
 Taxonomy
 Essence
 Emotional Arcs
 Moving ahead
 References

The PoCSverse
 What's the Story?
 39 of 84
 Storytellers
 Stories
 Conspiracy theories
 Power
 Taxonomy
 Essence
 Emotional Arcs
 Moving ahead
 References

From the end of the interview:

NICOLAS HENIN: No, it was just like in a movie. And, by the way, even the people going to Syria, joining ISIS in Syria to fight, even these people see himself as movie characters. They play their own movie. This is why I think that the most powerful way to fight ISIS are not bombs. It is to kill the narrative. We have to write another movie. We have to build other heroes. And this is why I believe that the French are making big mistakes in the ways they, they fight ISIS.

We created, for instance, accounts on the social media named “Stop Jihadism,” and this is [BLEEP], like they did not understand anything. And I did understand why we are so bad. It’s just because in France we don’t know how to write TV series properly.

[BROOKE LAUGHS]

Just because we have no imagination, we cannot just tell beautiful stories, create beautiful characters, beautiful heroes.

And this is what we have to do because in our world, in our societies what do people want? They want to become heroes. They want to be famous. They want to be, to be recognized.

Stories make us do all kinds of things:

[The Comet Ping Pong Gunman Answers Our Reporter’s Questions:](#)



“According to court documents, Mr. Welch said he had come armed to help rescue the children.”

“The intel on this wasn’t 100 percent,” he said.

He said he did not believe in conspiracy theories, but then added that the Sept. 11, 2001, attacks needed to be re-examined. He has listened to Alex Jones, whose radio show traffics in conspiracy theories and who once said that Mrs. Clinton “has personally murdered and chopped up” children. “He’s a bit eccentric,” Mr. Welch said. “He touches on some issues that are viable but goes off the deep end on some things.”

[The Attack on the United States Capitol](#)



Photo: Evelyn Hockstein for The Washington Post

[Washington Post’s massive analysis](#)
Red Flags, Bloodshed, Contagion

Senate Chaplain Barry Black:

“These tragedies have reminded us that words matter, and that the power of life and death is in the tongue.”

The PoCSverse
What’s the Story?
40 of 84
Storytellers
Stories
Conspiracy theories
Power
Taxonomy
Essence
Emotional Arcs
Moving ahead
References

Massive informational misdirection as a cognitive denial of story:



“How the Chinese government fabricates social media posts for strategic distraction, not engaged argument”

King, Pan, and Roberts,
American Political Science Review, ,
Forthcoming. ^[15]

Make the truth a needle in a haystack

Trump’s Reality Distortion Field
<http://www.onthemedial.org>

“Surkov turned Russian politics into a bewildering constantly changing piece of theater. He sponsored all kinds of groups, ...no one was sure what was real or fake. ...it is a strategy of power that keeps any opposition constantly confused.”

The PoCSverse
What’s the Story?
41 of 84
Storytellers
Stories
Conspiracy theories
Power
Taxonomy
Essence
Emotional Arcs
Moving ahead
References

Stories generated the first surveillance state:



Low tech, low cost.

Infrastructure maintained in the Social Wild by storytellers and storybelievers.

Omnipresence and omniscience: The end of privacy.

The PoCSverse
What’s the Story?
42 of 84
Storytellers
Stories
Conspiracy theories
Power
Taxonomy
Essence
Emotional Arcs
Moving ahead
References

Defend the Story:

[The Ten \(or Eleven\) Commandments:](#)

I am the LORD thy God
No other gods before me
No graven images or likenesses
Not take the LORD’s name in vain
Remember the sabbath day

Honour thy father and thy mother
Thou shalt not kill
Thou shalt not commit adultery
Thou shalt not steal
Thou shalt not bear false witness
Thou shalt not covet

Operating systems:

Windows: “No other installations before me”

Propaganda

“If you’re looking to understand what’s actually happening in this country, always assume the opposite of whatever they’re telling you on the big news stations,” — Tucker Carlson

The PoCSverse
What’s the Story?
43 of 84
Storytellers
Stories
Conspiracy theories
Power
Taxonomy
Essence
Emotional Arcs
Moving ahead
References

Defend your mind:

If a storyverse—whether it be through storytellers, groups, books, movies—tells you that all other stories are wrong, then that storyverse is false.

The PoCSverse
What’s the Story?
44 of 84
Storytellers
Stories
Conspiracy theories
Power
Taxonomy
Essence
Emotional Arcs
Moving ahead
References

[Book \(story\) burning](#) (451 °F)



The PoCSverse
What’s the Story?
45 of 84
Storytellers
Stories
Conspiracy theories
Power
Taxonomy
Essence
Emotional Arcs
Moving ahead
References

The American Dream = Rags to Riches

The story that anyone can become King or Queen.

Story of individual, not the collective.

But we know about fame and success:

The presence of outsized fame in a social system means social imitation is a driver of value.

Stories of societies can only hold if they have been and remain believable.

“Entertaining beliefs in economic mobility”: Effort to understand if rags to riches stories in popular culture affect people’s lives. ^[14]

The PoCSverse
What’s the Story?
46 of 84
Storytellers
Stories
Conspiracy theories
Power
Taxonomy
Essence
Emotional Arcs
Moving ahead
References

The PoCSverse
What’s the Story?
47 of 84
Storytellers
Stories
Conspiracy theories
Power
Taxonomy
Essence
Emotional Arcs
Moving ahead
References

The PoCSverse
What’s the Story?
48 of 84
Storytellers
Stories
Conspiracy theories
Power
Taxonomy
Essence
Emotional Arcs
Moving ahead
References

If not Trump, what? [David Brooks, New York Times, 2016-04-29:](#)

“We’ll probably need a new national story. Up until now, America’s story has been some version of the rags-to-riches story, the lone individual who rises from the bottom through pluck and work. But that story isn’t working for people anymore, especially for people who think the system is rigged.”

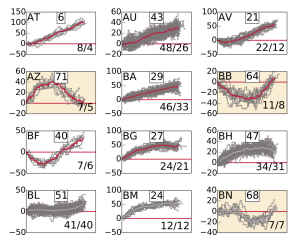
“I don’t know what the new national story will be, but maybe it will be less individualistic and more redemptive. Maybe it will be a story about communities that heal those who suffer from addiction, broken homes, trauma, prison and loss, a story of those who triumph over the isolation, social instability and dislocation so common today.”

Claim: Stories must have “real” substance to endure over generations³

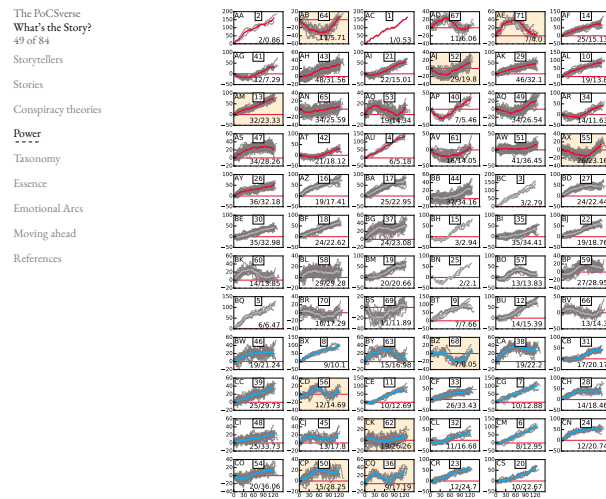
- Enormous disasters: Fabrications of real experiences.
 - Plain old making stuff up: [A million little pieces](#) ... Oprah will get you.
 - Wikipedia’s has a list of famous fake memoirs.
 - Expansive plagiarism: [How Opal Mehta Got Kissed, Got Wild, and Got a Life](#). #kudos
 - Self-plagiarism and more standard badness: [Jonah Lehrer](#). Amazingly: Made up Bob Dylan quotes.
 - Lance Armstrong. Also got to meet Oprah.
- Enormous power: Fiction that speaks to real experiences.

³Reality is being tested harshly

[“The game story space of professional sports: Australian Rules Football”](#)
Kiley, Reagan, Mitchell, Danforth, and Dodds. Physical Review E, 93, 052314, 2016. ^[13]



Sports = Spontaneous story producing systems



The story trap [by Philip Ball, 2015-11-12](#)

- “We use neat stories to explain everything from sports matches to symphonies. Is it time to leave the nursery of the mind?”
- “...we might wonder if the ultimate intelligibility of the universe will be determined not so much by the capacity of our minds to formulate the appropriate concepts and equations, but by whether we can find a meaningful story to tell about it.”

The “I wonder who wrote this?” Great Man Theory:

[“The Power of Myth”](#) [by Campbell and Moyers \(1991\)](#). ^[6]

[“The Hero with a Thousand Faces”](#) [by Joseph Campbell \(2008\)](#). ^[5]

Highly influential but it’s a trap!

The PoCSVerse
What’s the Story?
52 of 84
Storytellers
Stories
Conspiracy theories
Power
Taxonomy
Essence
Emotional Arcs
Moving ahead
References

How to write a screenplay:
[“Save the Cat!”](#) [by Blake Snyder \(2005\)](#). ^[20]

- 9 acts.
- Someone important to the main characters gets toasted in the second act, blah, blah.
- Believes irony is key.
- Logline = one or two sentence summary.
- Logline fails to be a summary of logline.

The PoCSVerse
What’s the Story?
53 of 84
Storytellers
Stories
Conspiracy theories
Power
Taxonomy
Essence
Emotional Arcs
Moving ahead
References

Seven “good” stories?:

[“The Seven Basic Plots: Why We Tell Stories”](#) [by Christopher Booker \(2005\)](#). ^[3]

- Seven Gateways to the Underworld (?)
- Overcoming the Monster × 2 and the Thrilling escape from Death (plot).
- Rags to Riches (plot).
- The Quest (plot).
- Voyage and Return (plot).
- Comedy × 2 (plot but really structure).
- Tragedy × 3 (plot).
- Rebirth (plot).
- The Dark Power: From Shadow into Light (master structure).

The PoCSVerse
What’s the Story?
54 of 84
Storytellers
Stories
Conspiracy theories
Power
Taxonomy
Essence
Emotional Arcs
Moving ahead
References

The taxonomy of stories:

- ANIMAL TALES 1-299
 - Wild Animals 1-99
 - The Clever Fox (Other Animal) 1-69
 - Other Wild Animals 70-99
 - Wild Animals and Domestic Animals 100-149
 - Wild Animals and Humans 150-199
 - Domestic Animals 200-219
 - Other Animals and Objects 220-299
- TALES OF MAGIC 300-749
 - Supernatural Adversaries 300-399
 - Supernatural or Enchanted Wife (Husband) or Other Relative 400-459
 - Wife 400-424
 - Husband 425-449
 - Brother or Sister 450-459
 - Supernatural Tasks 460-499
 - Supernatural Helpers 500-559
 - Magic Objects 560-649
 - Supernatural Power or Knowledge 650-699
 - Other Tales of the Supernatural 700-749
- RELIGIOUS TALES 750-849
 - God Rewards and Punishes 750-779
 - The Truth Comes to Light 780-799
 - Heaven 800-809
 - The Devil 810-826
 - Other Religious Tales 827-849
- REALISTIC TALES 850-999
 - The Man Marries the Princess 850-869
 - The Woman Marries the Prince 870-879
 - Proofs of Fidelity and Innocence 880-899
 - The Obstinate Wife Learns to Obey 900-909
 - Good Precepts 910-919
 - Clever Acts and Words 920-929

Folkloristics: [Academic area formally started around 1900.](#)
[Aarne–Thompson classification systems](#)
[Motif-based taxonomy.](#)
[Online classification database](#)

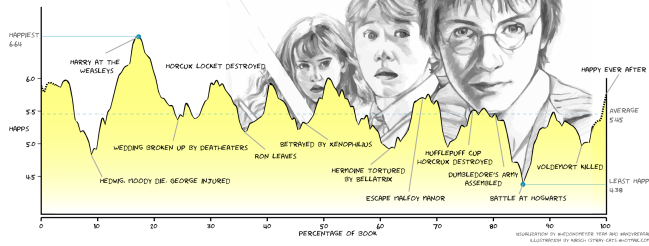
The PoCSVerse
What’s the Story?
55 of 84
Storytellers
Stories
Conspiracy theories
Power
Taxonomy
Essence
Emotional Arcs
Moving ahead
References

The PoCSVerse
What’s the Story?
56 of 84
Storytellers
Stories
Conspiracy theories
Power
Taxonomy
Essence
Emotional Arcs
Moving ahead
References

The PoCSVerse
What’s the Story?
57 of 84
Storytellers
Stories
Conspiracy theories
Power
Taxonomy
Essence
Emotional Arcs
Moving ahead
References

Harry Potter and the Deathly Hallows

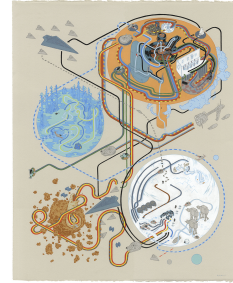
by J.K. Rowling



“The emotional arcs of stories are dominated by six basic shapes”
 Reagan, Mitchell, Danforth, Dodds, and Dodds.
 EPJ Data Science, 5, 31, 2016. [18]

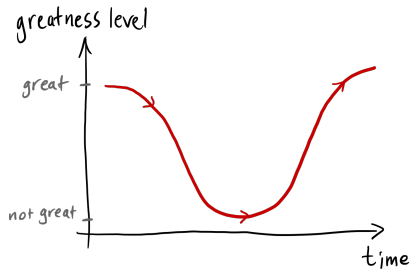


“Plotted: A Literary Atlas”
 by Andrew DeGraff (2015). [9]



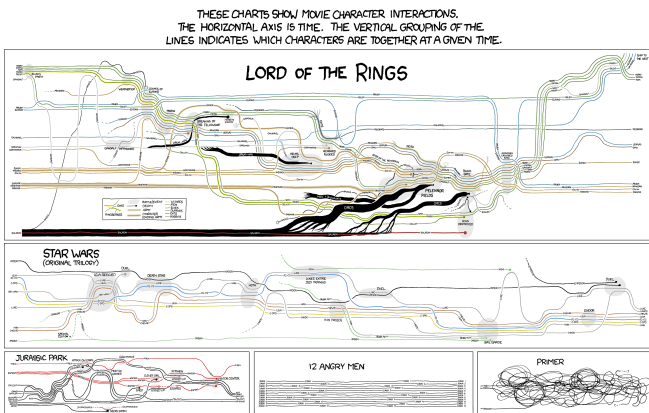
<http://www.andrewdegraff.com/moviemaps/>

Stories matter:



- Used by Reagan and Bush in 1980.
- Template used by many others including Bill Clinton.

Emotional arcs are not plots. Temporal character interaction networks are closer but still miss events, environments, interaction types:



A Science of Stories?

Stories are everything⁴

- Maybe? yes?
- Stories ~ Characters* + Time.
- One of the most important, dangerous, enjoyable terrifying things we can study.
- Essence: Bare survival to flourishing (“Danger Will Robinson”)

We talk about and study stories everywhere but ...

- We don't have a central place academically.
- Departments of: English, history, political science, folklore, cognitive sciences, arts, musicology, communication, ...

We're we are now:

- SOCKS: Science of Online Corpora, Knowledge, and Stories (\$20M, 2023-)

⁴Okay, poems are everything



“George Green and physics”
 Freeman Dyson,
 Physics World, 6, 33, 1993. [10]

- “... scientific revolutions are more often driven by new tools than by new concepts.”
- Thomas Kuhn in his famous book, The Structure of Scientific Revolutions, talked almost exclusively about concepts and hardly at all about tools. His idea of a scientific revolution is based on a single example, the revolution in the theoretical physics that occurred in the 1920s with the advent of quantum mechanics.
- This was a prime example of a concept-driven revolution. Kuhn's book was so brilliantly written that it became an instant classic. It misled a whole generation of students and historians of science into believing that all scientific revolutions are concept-driven.”

The PoCSVerse
 What's the Story?
 71 of 84
 Storytellers
 Stories
 Conspiracy theories
 Power
 Taxonomy
 Essence
 Emotional Arcs
 Moving ahead
 References



“George Green and physics”
 Freeman Dyson,
 Physics World, 6, 33, 1993. [10]

- “The concept-driven revolutions are the ones that attract the most attention and have the greatest impact on the public awareness of science, but in fact they are comparatively rare.”
- In the last five hundred years we have had six major concept-driven revolutions, associated with the names of Copernicus, Newton, Darwin, Maxwell, Einstein and Freud, besides the quantum-mechanical revolution that Kuhn took as his model.
- During the same period there have been about 20 tool-driven revolutions, not so impressive to the general public but of equal importance to the progress of science.”

The PoCSVerse
 What's the Story?
 72 of 84
 Storytellers
 Stories
 Conspiracy theories
 Power
 Taxonomy
 Essence
 Emotional Arcs
 Moving ahead
 References



“George Green and physics”
 Freeman Dyson,
 Physics World, 6, 33, 1993. [10]

- “I will not attempt to make a complete list of tool-driven revolutions. Two prime examples are the Galilean revolution resulting from the use of the telescope in astronomy, and the Crick-Watson revolution resulting from the use of X-ray diffraction to determine the structure of big molecules in biology.
- The effect of a concept-driven revolution is to explain old things in new ways.
- The effect of a tool-driven revolution is to discover new things that have to be explained.”

The PoCSVerse
 What's the Story?
 73 of 84
 Storytellers
 Stories
 Conspiracy theories
 Power
 Taxonomy
 Essence
 Emotional Arcs
 Moving ahead
 References

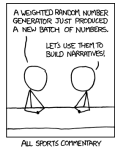
Observations/Claims/Questions:

- Primacy of storytelling and storybelieving in for individuals and populations.
- Maybe: Stories are dynamical paths; plots are algorithms that give rise to stories.
- Internet gives extraordinary power to propaganda, disinformation, conspiracy theories, ...
- Global social media creates a global robust-yet-fragile social system.
 - Failure can be endogenous (infighting) and/or ignited/supported from the outside.

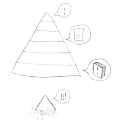
Observations/Claims/Questions:

- Basic social fabric: What is the spectrum of stories in the media being told about classes of people, from within and without.
- Story decoherence: telephone game
- What about stories about global problems like climate change? Government? Journalism (death of)?
- All separately powerful: Words, Music/Sound, Visual, ... interplay?
- Outcome: How to communicate scientific findings powerfully.

Understanding the Sociotechnocene—Stories:



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- Goal: a Science of Stories.
- Claim: Homo narrativus—we run on stories.
- “What’s the John Dory?”
- “They’ve lost the plot/thread”
- Maybe: The narrative hierarchy and the Scalability of stories.
- Research: Extraction of metaphors, frames, narratives, motifs, tropes, and stories from large-scale text/corpora.
- Storywrangler, the smogasdahbord at the POIUSometer, ...
- Research: What’s the taxonomy of human stories?
- Maybe: Stories ↔ Algorithms

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