What's the Story?

Principles of Complex Systems | @pocsvox CSYS/MATH 300, Fall, 2017

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The University of Vermont





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It's all about algorithms (stories):



"On the Origin of Stories: Evolution, Cognition, and Fiction" 3. by Brian Boyd (2010). [3]



"The Storytelling Animal: How Stories Make Us Human" 3, 2

by Jonathan Gottschall (2013). [7]





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These slides are also brought to you by:

Special Guest Executive Producer: Pratchett



On Instagram at pratchett the cat

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(Sir Terry) Pratchett's ☑ Narrativium ☑:



- "The most common element on the disc, although not included in the list of the standard five: earth, fire, air, water and surprise. It ensures that everything runs properly as a story."
- "A little narrativium goes a long way: the simpler the story, the better you understand it. Storytelling is the opposite of reductionism: 26 letters and some rules of grammar are no story at all."
- "Heroes only win when outnumbered, and things which have a one-in-a-million chance of succeeding often do so."

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Competing storytelling organizations:

- News.
- 🖀 Art.
- Music industry.
- Books, magazines.
- Movie studios, Netflix, HBO, Disney.
- Video Games.
- 💫 Social media: Facebook, Medium, Tumblr, blogs.

Cultural products from Pantheon 2:

Writers, artists, movie directors, video game directors.

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1999 Gallup poll: ☑

- 6% of Americans said the lunar landings were fake.
- 5% were undecided.
- ⊗ Video replay (The Comments).

♣ The Earth is flat. https://www.tfes.org .

Per the title, JK Rowling doesn't exist.

years? — Nina Grünfeld 🗗

A Phantom time hypothesis 2:

legitimize power.

Good to know.

first millennium cabal.

The years 614–911 AD never existed.

The year 2017 AD is really 1820 AD.

comets, dendrochronology.

Straight up jump of 297 years orchestrated by a

Holy Roman Emperor Otto III (@TheBoss37), Pope Sylvester II (@PSly2) wanted to live in 1000 AD,

Crushed by reality: Records of solar eclipses,

A. "Yes. Yes it is." — This course.

http://www.thebeatlesneverexisted.com .

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

The Beatles never existed:

Buzz Aldrin has enough:

Highlights:



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JK Rowling doesn't exist: conspiracy theories the Narrativium internet can't resist , The Guardian, 2017-10-27:

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Understanding the Sociotechnocene—Stories:



xkcd.com/904/ 🗷

- Goal: a Science of Stories.
- Claim: Homo narrativus ☑—we run on stories.
- "What's the John Dory?"

conspiracy theories exist and flourish:

- "They've lost the plot/thread"
- & Claim: The narrative hierarchy and the Scalability of stories 2.
- Research: Extraction of metaphors, frames, narratives, and stories from large-scale text.
- Research: The taxonomy of human stories.







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Adjacent narratives — why mistruths and

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Finland does not exist:



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

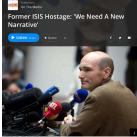
"Without a winking smiley or other blatant display of humor, it is utterly impossible to parody a Creationist in such a way that someone won't mistake for the genuine article."

- 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 \(\mathbb{Z} \)).

er ISIS Hostage: 'We Need A New



Story Wars:

Nicholas Hénin 6. French Journalist, held captive for 10 months .

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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.

IBROOKE LAUGHS1

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.

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Stories make us do all kinds of things:

The Comet Ping Pong Gunman Answers Our Reporter's Questions: 🗗



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- "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."





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Massive informational misdirection as a cognitive denial of service: 🗹



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

King, Pan, and Roberts, American Political Science Review, , , Forthcoming. [9]

- A Make the truth a needle in a haystack
- Trump's Reality Distortion Field ☑, http://www.onthemedia.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."

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Stories generated the first surveillance state:



- & Low tech, lost cost.
- Infrastructure maintained in the Social Wild by storytellers and storybelievers.
- Omnipresence and omniscience: The end of privacy.

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.

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endure

experiences.

experiences.

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Claim: Stories must have real substance to

& Enormous disasters: Fabrications of real

... Oprah will get vou.

Plain old making stuff up: A million little pieces

Wikipedia's has a list of famous fake memoirs ☑. Expansive plagiarism: How Opal Mehta Got Kissed, Got Wild, and Got a Life .

Self-plagiarism and more standard badness: Jonah

Amazingly: Made up Bob Dylan quotes. Lance Armstrong. Also got to meet Oprah.

Enormous power: Fiction that speaks to real



- "We use neat stories to explain everything from sports matches to symphonies. Is it time to leave the nursery of the
- & "...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."

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L ☑ imits: The story trap by Philip Ball, 2015-11-12







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Competitive Punning, The Economist, 2017-08-12**亿**:

Why English is such a great language for puns

Gamers now even take part in world champunships

Punster pseudonym: "Punder Enlightening"

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Being funny, a grand challenge for AI:

- Nired (2014-04-01): It's Comedian vs. Computer in a Battle for Humor Supremacy . Myq Kaplan pun-off.
- Pun-free paper title: "Generating Novel Puns and Plays of Word with Machine Learning"
- "Warning: This paper may cause the reader to groan to death."





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If not Trump, what? , David Brooks, New York Times:

"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."

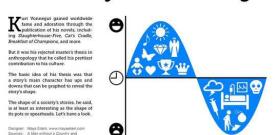




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Kurt Vonnegut on the shapes of stories:

The Shapes of Stories by Kurt Vonnegut



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Ron Swanson:

🚓 "I hate metaphors. That's why my favorite book is Moby Dick. No frou-frou symbolism. Just a good, simple tale about a man who hates an

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Kurt Vonnegut on the shapes of stories: ☑



OH, C'MON. I WASN'T THAT TERRIBLE:

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SWANSON PYRAMID OF GREATNESS

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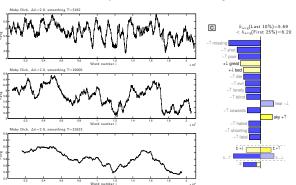
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The emotional shapes of stories—Moby Dick:



Partly inspired by Vonnegut's Shapes of Stories \mathbb{Z} .

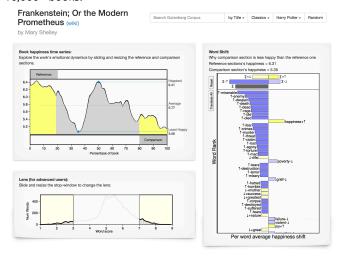


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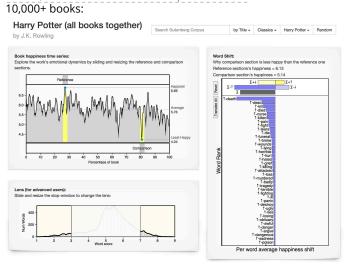
The New Yorker, December 16, 2013, p. 56.

Online, interactive Emotional Shapes of Stories 🗗 for

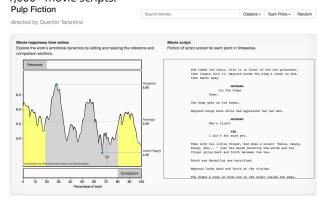
10,000+ books:

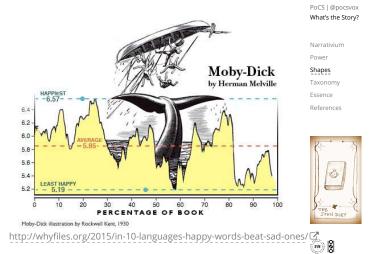


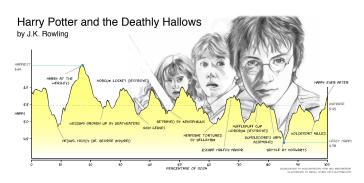
Online, interactive Emotional Shapes of Stories **♂** for



Online, interactive Emotional Shapes of Stories of Stories for 1,000+ movie scripts:







Reagan et al. 2016.



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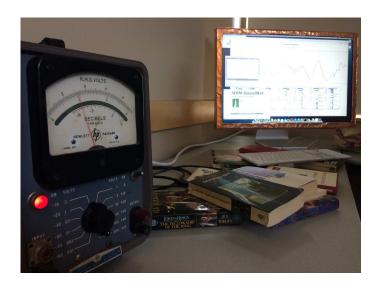
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Mode	Mode Arc	N_m	N_m/N	DL Median ▼	DL Mean ∇	DL Variance	Download Distribution
SV 1		263	15.1%	295.0	644.3	2207201	d Inneren
-SV 1	\sim	442	25.3%	337.5	636.0	913464	п
SV 2	\sim	230	13.2%	314.0	630.3	1058916	III III III III III III III III III II
-SV 2	\sim	169	9.7%	296.0	569.1	780365	Militar
SV 3	\sim	104	6.0%	298.0	874.5	7826797	Millionida
-SV 3	\sim	108	6.2%	298.0	748.7	2517822	dilitantana
SV 4	\sim	108	6.2%	316.0	848.8	2763060	
-SV 4	\sim	50	2.9%	292.0	770.7	1546202	<u>-1111-111-11-11-11-11-11-11-11-11-11-11</u>
SV 5	$\sim\sim$	48	2.7%	280.0	421.7	182443	n 64h
-SV 5	$\sim\sim$	48	2.7%	263.5	462.0	211259	

FIG. 6: Download statistics for SVD Modes with more than 2.5% of books. Modes SV 3 through -SV $\rlap/4$ (both polarities of modes 3 and 4) exhibit a higher average number of downloads and more variance than the rest.

Another Great Moment in being Andy

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Dodds.

Reagan:



"The game story space of professional sports: Australian Rules Football"

Kiley, Reagan, Mitchell, Danforth, and

Physical Review E, **93**, 052314, 2016. [8]

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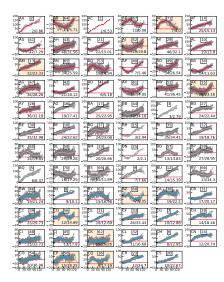




Emotional arcs for 1748 books from gutenberg.org \square

Harry Potter and the Chamber of Plot Devices:

Six basic shapes: Tragedy, Icarus, Oedipus, Rags-to-Riches, Man-in-a-hole, Cindarella.



The "I wonder who wrote this?" Great Man Theory:



"The Power of Myth" 3, 🗗 by Campbell and Moyers (1991). [5]



"The Hero with a Thousand Faces" 🚨 🗹 by Joseph Campbell (2008). [4]

Highly influential but it's a trap!

How to write a screenplay:



"Save the Cat!" a. 🗗 by Blake Snyder (2005). [10]

- ቆ 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.

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Seven "good" stories?:



"The Seven Basic Plots: Why We Tell Stories" 3, 2

by Christopher Booker (2005). [2]

- 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).
- \clubsuit Tragedy \times 3 (plot).
- Rebirth (plot).
- The Dark Power: From Shadow into Light (master) structure).



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The taxonomy of stories:

ANIMAL TALES 1-299

ANIMAL TALES 1-299
 Wild Animals 1-99
 The Clever Fox (Other Animal) 1-89
 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

s 300-399

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 Knowled

Magic Objects 586-499.

Magic Objects 586-499.

Supernatural Power or Knowledge 850-899.

Other Tales of the Supernatural 700-749

REGIGIOLE 716.5 790-449

God Revards and Punishes 750-779

Tha Turth Comes to Light 780-799

Heaven 800-809

The Devil 810-826

Other Religious Tales 827-849

The Man Marries the Princess 850-899

The Woman Marries the Princes 870-879

Profos of Fidelity and Innocence 880-899

The Obstantiate Wife Learns to Dev. 900-909

Good Precopts 910-919

Clever Acts and Words 920-929 er Acts and Words 920-929

Folkloristics: 2

- Academic area formally started around 1900.
- Aarne-Thompson classification systems 🖸
- Motif-based taxonomy.
- Online classification database 🗹

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"Computational folkloristics" 🗗

Abello, Broadwell, and Tangherlini, Communications of the ACM, **55**, 60–70, 2012. [1]

- 🙈 Motivation: "As a simple, historical example from the Danish materials, no one has yet classified (according to the ATU index) the several thousand fairy tales in the collections of the Danish Folklore Archive (http://www.dafos.dk 🗷), nor does it seem anyone ever will."
- 'Imagine a system in which the complexities of a folklore corpus can be explored at different levels of resolution, from the broad perspective of "distant reading" down to the narrow perspective of traditional "close reading."



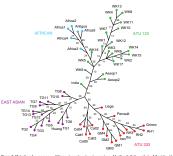


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"The phylogeny of Little Red Riding Hood"

Jamshid J. Tehrani, PLoS ONE, 8, e78871, 2013. [11]



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Homo narrativus:

Provide dynamic paths and trajectories.

Stories are algorithms for life:

- If this, then that.
- & Convey and reinforce how to behave, how not to behave.
- Full ecology of stories = Competing, self-defending operating system for people's minds.

Aphorisms as algorithms:

- Pride cometh before the fall.
- A stitch in time saves nine.
- & Look before you leap.
- Anti-aphorism: The one who hesitates is lost.



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The boiled-down essence of stories:

Famous folklore scholar:



- & Comic Book Guy (CBG).
- Real name: Jeffrey "Jeff" Albertson.
- Master's degree in Folklore and Mythology.
- Thesis: translated Lord of the Rings into Klingon.

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The three fundamental events of (non-clone) life:

- & Hatchings, Matchings, and Dispatchings.
- Stories encode survival algorithms.
- Survival algorithms for individuals and groups.
- Dynamic paths: the true, the possible, the unlikely.
- The unifying theme of existence is existence.





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The taxonomy of stories:

Fundamental arcs:

- Kill the Monster.
- Rags to Riches (and Riches to Rags—Metamophosis).
- 💫 Journey/Odyssey: Search for a salvation, a "Holy Grail".
- Romance.
- Narratives in Left Nullspace: All Stories of The

What about comedies?

& Comedies are not in themselves a story, but a way of telling stories.

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Super Survival of the Stories:



The Desirability Storytellers 2, The Atlantic, Ed Yong, 2017-12-05.

- Study of Agta, Filipino hunter-gatherers.
- Storytelling valued well above all other skills including hunting.
- Stories encode prosocial norms such as cooperation.
- & Like the best stories, the best storytellers reproduce more successfully.

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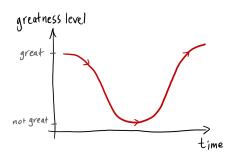
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Stories matter: ☑



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

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References I

- [1] J. Abello, P. Broadwell, and T. R. Tangherlini. Computational folkloristics. Communications of the ACM, 55:60-70, 2012. pdf 🗷
- [2] C. Booker. The Seven Basic Plots: Why We Tell Stories. Continuum, 2005.
- [3] B. Boyd. On the Origin of Stories: Evolution, Cognition, and Fiction. Belknap Press, 2010.
- [4] J. Campbell. The Hero with a Thousand Faces. New World Lbirary, third edition, 2008.



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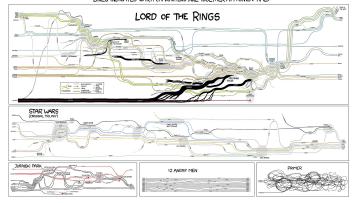
Narrativium

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Essence

THESE CHARTS SHOW MOVIE CHARACTER INTERACTIONS, THE HORIZONTAL AXIS IS TIME. THE VERTICAL GROUPING OF THE. LINES INDICATES WHICH CHARACTERS ARE TOGETHER AT A GIVEN TIME.



https://xkcd.com/657/℃

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