

What's the Story?

Principles of Complex Systems | @pocsvox
 CSYS/MATH 300, Fall, 2016 | #FallPoCS2016

Prof. Peter Dodds | @peterdodds

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 Vermont Advanced Computing Core | University of Vermont



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What's the Story?

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Outline

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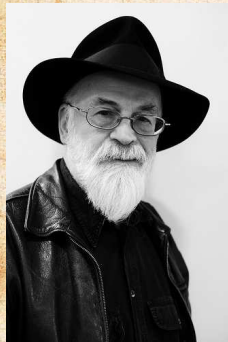
References



(Sir Terry) Pratchett's Narrativium

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What's the Story?



🌀 “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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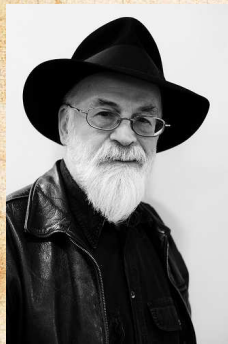
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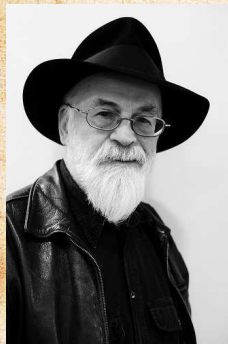
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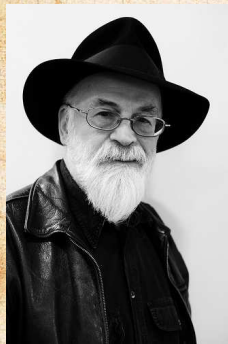
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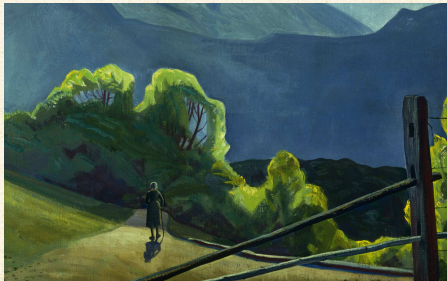
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The story trap by Philip Ball, 2015-11-12

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-  “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.”



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 [Parable of the Polygons](#):

-  Writers, artists, movie directors, video game directors.

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Cultural products from Pantheon

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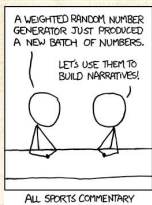
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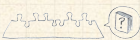
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Understanding the Sociotechnocene—Stories:



xkcd.com/904/



Perhaps: A true science of stories.



Claim: *Homo narrativus*—we run on stories.



Claim: The narrative hierarchy and the scalability of stories.



Research: Extraction of metaphors, frames, narratives, and stories from large-scale text.



Research: The taxonomy of human stories.



Harness: Sociotechnical algorithms for measuring/predicting decisions, contagion, demographics, weather, ...

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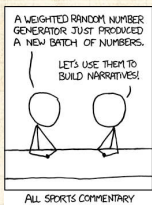
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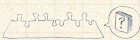
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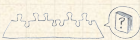
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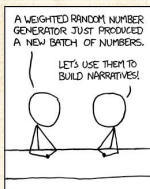
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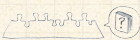
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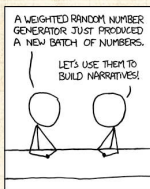
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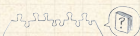
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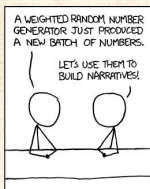
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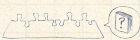
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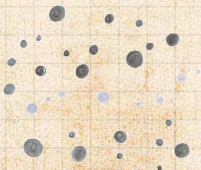
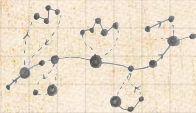




Adjacent narratives ↗—why mistruths and conspiracy theories ↗ exist and flourish:

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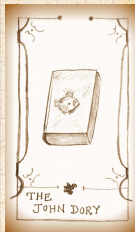
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1999 Gallup poll: 

 6% of Americans said the lunar landings were fake.

 5% were undecided.

Video replay:

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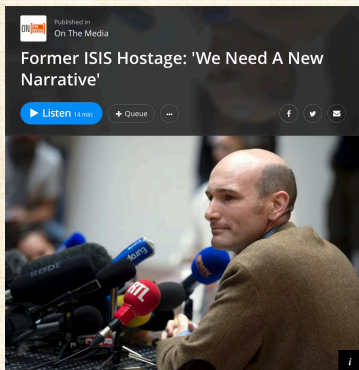
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
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Story Wars:



Nicholas Hénin 
 French Journalist,
 held captive for 10
 months .

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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.

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They want to be famous. They want to be, to be recognized.

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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.

[BROOKE LAUGHS]

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

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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.
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"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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 - 📖 Expansive plagiarism: How Oprah, Menta Got Kissed, Got Wild, and Got a Life [🔗](#)
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- ✦ Self-plagiarism and more standard badness: [Jonah Lehrer](#).
- ✦ [Fakingly Made](#) by Ben El-Mechaieq.
- ✦ Lance Armstrong. Also got a [mea culpa](#).

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Kurt Vonnegut on the shapes of stories:

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The Shapes of Stories

by Kurt Vonnegut

Kurt Vonnegut gained worldwide fame and adoration through the publication of his novels, including *Slaughterhouse-Five*, *Cat's Cradle*, *Breakfast of Champions*, and more.

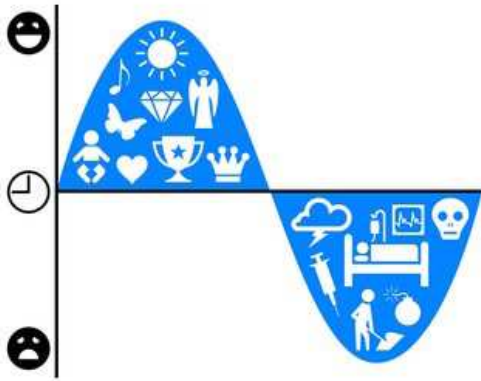
But it was his rejected master's thesis in anthropology that he called his prettiest contribution to his culture.

The basic idea of his thesis was that a story's main character has ups and downs that can be graphed to reveal the story's shape.

The shape of a society's stories, he said, is at least as interesting as the shape of its pots or spearheads. Let's have a look.

Designer: Maya Eilam, www.mayaailam.com

Sources: *A Man without a Country* and *Palm Sunday* by Kurt Vonnegut



Kurt Vonnegut on the shapes of stories:



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What's the Story?

Man in Hole



The main character gets into trouble then gets out of it again and ends up better off for the experience.

-  Arsenic and Old Lace
-  Harold & Kumar Go To White Castle

Boy Meets Girl



The main character comes across something wonderful, gets it, loses it, then gets it back forever.

-  Jane Eyre
-  Eternal Sunshine of the Spotless Mind

From Bad to Worse





The main character starts off poorly then gets continually worse with no hope for improvement.

-  The Metamorphosis
-  The Twilight Zone

Which Way Is Up?



The story has a likeliest ambiguity that keeps us from knowing if new developments are good or bad.

-  Hamlet
-  The Sopranos

Creation Story



In many cultures' creation stories, humankind receives incremental gifts from a deity. First major staples like the earth and sky, then smaller things like sparrows and cell phones. Not a common shape for Western stories, however.

Old Testament




Humankind receives incremental gifts from a deity, but is suddenly ousted from good standing in a fall of enormous proportions.

-  Great Expectations

New Testament



Humankind receives incremental gifts from a deity, is suddenly ousted from good standing, but then receives off-the-charts bliss.

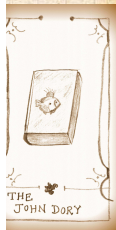
-  Great Expectations with Dickens' alternate ending

Cinderella



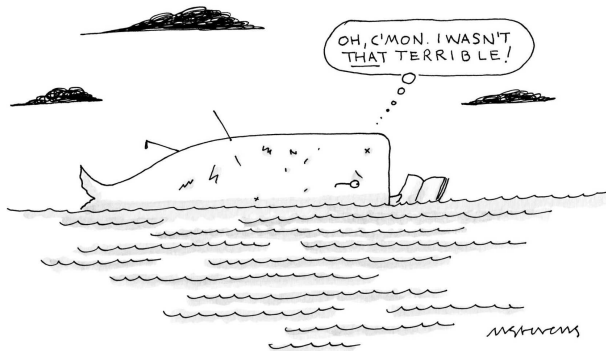
It was the similarity between the shapes of Cinderella and the New Testament that thrilled Vonnegut for the first time in 1947 and then over the course of his life as he continued to write essays and give lectures on the shapes of stories.

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

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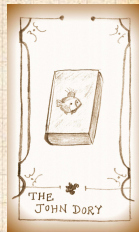
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 "I hate metaphors."



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📦 "I hate metaphors. That's why my favorite book is Moby Dick."



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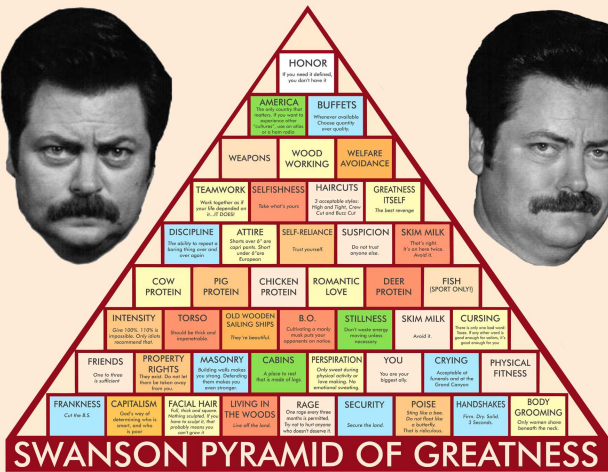
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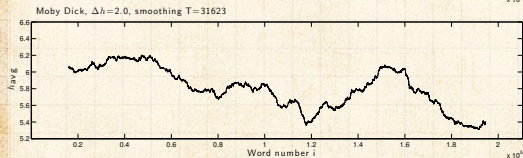
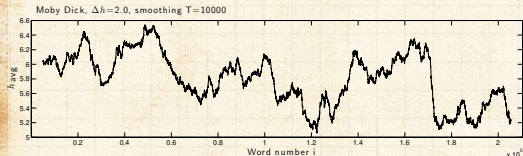
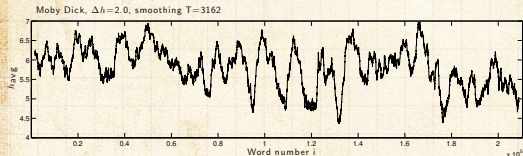
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🧩 "I hate metaphors. That's why my favorite book is Moby Dick. No frou-frou symbolism. Just a good, simple tale about a man who hates an animal."





The emotional shapes of stories—Moby Dick:



© $h_{avg}(\text{Last } 10\%)=5.69$
 $< h_{avg}(\text{First } 25\%)=6.20$



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Partly inspired by [Vonnegut's Shapes of Stories](#)

Online, interactive Emotional Shapes of Stories for 10,000+ books:

Frankenstein; Or the Modern Prometheus [\(wiki\)](#)

by Mary Shelley

Search Gutenberg Corpus

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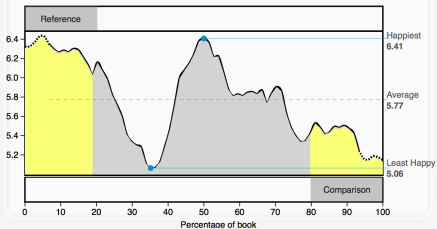
Classics ▾

Harry Potter ▾

Random

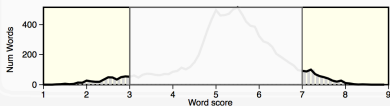
Book happiness time series:

Explore the work's emotional dynamics by sliding and resizing the reference and comparison sections.



Lens (for advanced users):

Slide and resize the stop-window to change the lens:

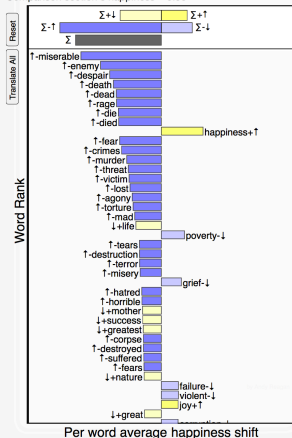


Word Shift:

Why comparison section is less happy than the reference one

Reference section's happiness = 6.31

Comparison section's happiness = 5.35



Online, interactive Emotional Shapes of Stories for 10,000+ books:

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by J.K. Rowling

Search Gutenberg Corpus

by Title ▾

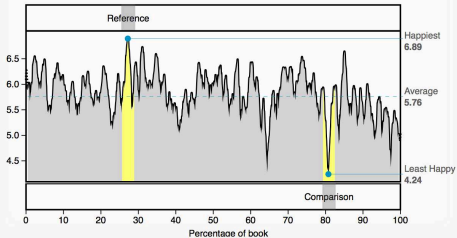
Classics ▾

Harry Potter ▾

Random

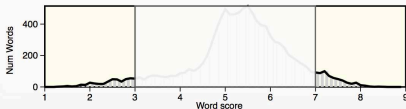
Book happiness time series:

Explore the work's emotional dynamics by sliding and resizing the reference and comparison sections.



Lens (for advanced users):

Slide and resize the stop-window to change the lens:

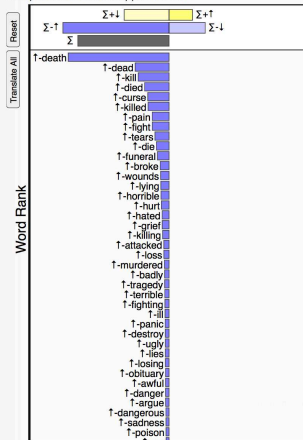


Word Shift:

Why comparison section is less happy than the reference one

Reference section's happiness = 6.13

Comparison section's happiness = 5.14



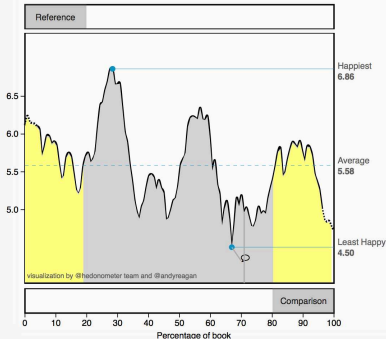
Online, interactive Emotional Shapes of Stories for 1,000+ movie scripts:

Pulp Fiction

directed by Quentin Tarantino

Movie happiness time series:

Explore the work's emotional dynamics by sliding and resizing the reference and comparison sections.



Movie script:

Portion of script scored for each point in timeseries.

Zed takes the chair, sits it in front of the two prisoners, then lowers into it. Maynard hands The Gimp's leash to Zed, then backs away.

MAYNARD
(to The Gimp)
Down!

The Gimp gets on its knees.

Maynard hangs back while Zed appraises the two men.

MAYNARD
Who's first?

ZED
I ain't fer sure yet.

Then with his little finger, Zed does a silent 'Benie, meany, miney, moe...' just his mouth mouthing the words and his finger going back and forth between the two.

Butch and Marsellus are terrified.

Maynard looks back and forth at the victims.

The Gimp's eyes go from one to the other inside the mask.

Narrativium

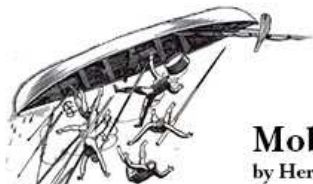
Power

Shapes

Taxonomy

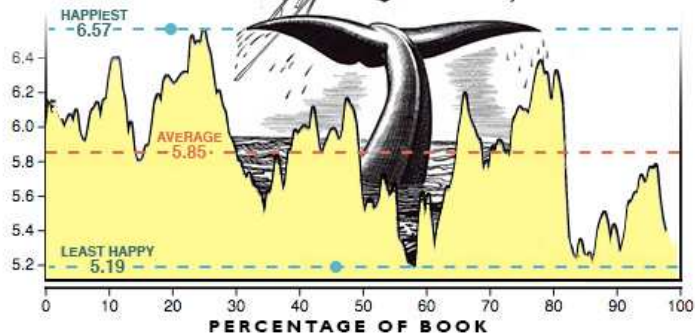
Essence

References



Moby-Dick

by Herman Melville



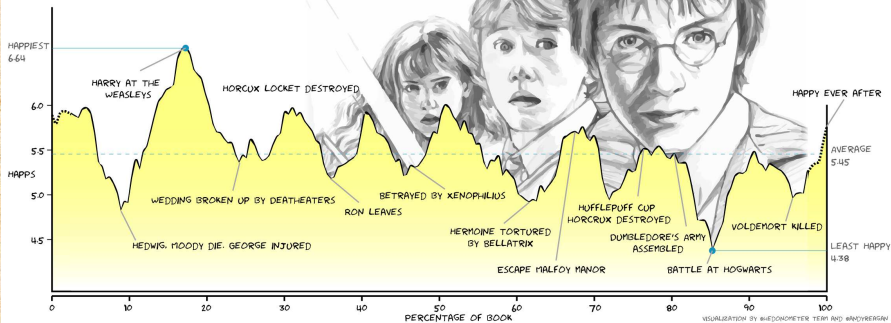
Moby-Dick illustration by Rockwell Kent, 1930



<http://whyfiles.org/2015/in-10-languages-happy-words-beat-sad-ones/>

Harry Potter and the Deathly Hallows

by J.K. Rowling



Reagan et al. in preparation, 2016.

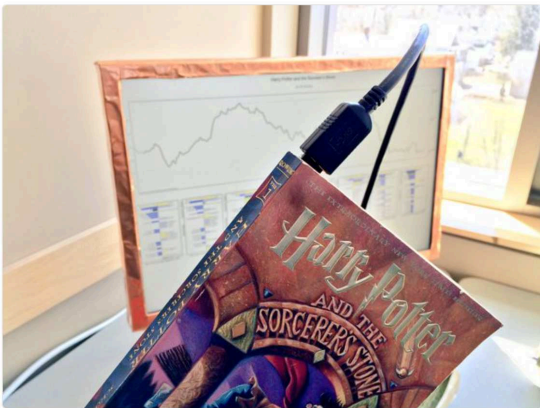


UVM 
@uvmvermont



Following

USB in a book? What is this wizardry? Check it out at the Student Research Conference creative lounge. #[uvmresearch](#)



RETWEETS LIKES

8

14



9:30 AM - 28 Apr 2016

PoCS | @pocsvox

What's the Story?

Narrativium

Power

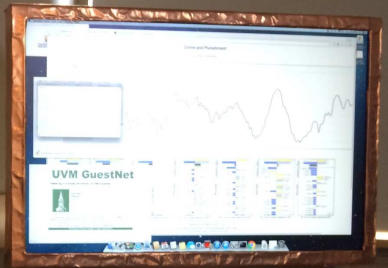
Shapes

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Harry Potter and the Chamber of Plot Devices:

Narrativium

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

Kiley, Reagan, Mitchell, Danforth, and Dodds.

Physical Review E, **93**, 052314, 2016. [5]

Narrativium

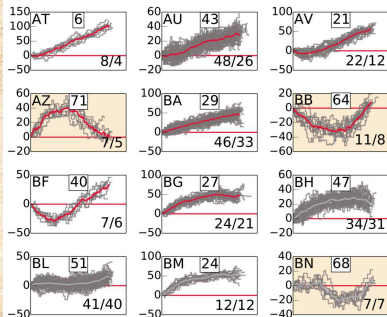
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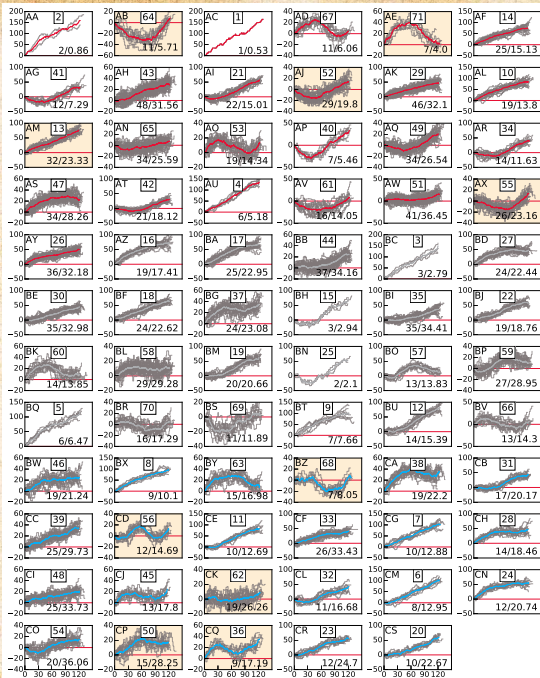
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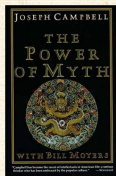
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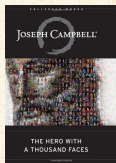
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The very tiresome Great Man Theory:



"The Power of Myth" [a](#) [↗](#)
by Campbell and Moyers (1991). ^[4]



"The Hero with a Thousand Faces" [a](#) [↗](#)
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Highly influential but it's a trap! [↗](#)

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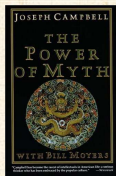
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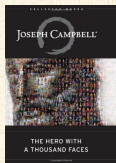
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by Blake Snyder (2005). [6]



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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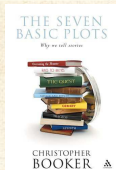
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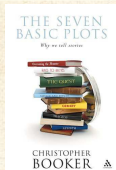
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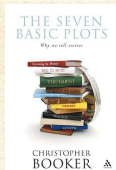
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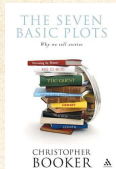
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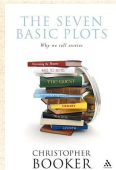
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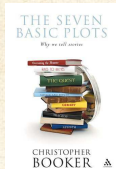
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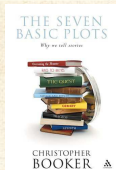
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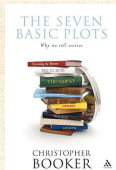
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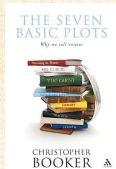
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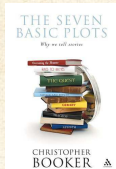
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Narrativium

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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 

Narrativium

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Taxonomy



Essence



References





"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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
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"The phylogeny of Little Red Riding Hood"

Jamshid J. Tehrani,

PLoS ONE, **8**, e78871, 2013. 

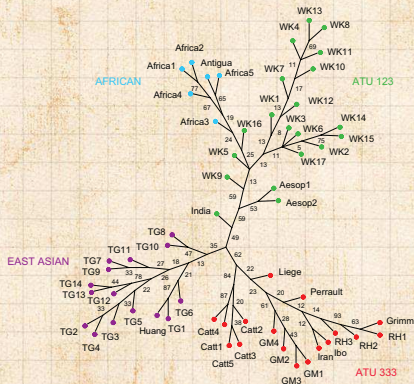


Figure 2. Majority-rules consensus of the most parsimonious trees returned by the cladistic analysis of the tales. Major groupings are labelled by region or ATU international type and indicated by the coloured nodes. Sub-types are indicated in the taxa labels (RH = Little Red Riding Hood; GM = Story of Grandmother; Catt = Catterinella; WK = The Wolf and the Kid; TG = Tiger Grandmother). Variants by particular authors, or from countries/ethnic groups that are discussed in the text have individual labels. Numbers beside the edges represent the level of support for individual clades returned by the bootstrap analysis.
doi:10.1371/journal.pone.0078871.g002



Famous folklore scholar:



Comic Book Guy (CBG).



Real name: Jeffrey
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PoCS | @pocsvox

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- 📦 The Journey: a Search or a Quest.
- 📦 Romance.
- 📦 Narratives in Left Nullspace: All Stories of The Many.

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What about comedies?

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



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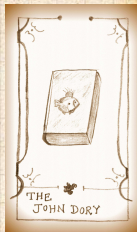
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The taxonomy of stories:

Fundamental arcs:

- 🧱 Kill the Monster.
- 🧱 Rags to Riches (and Riches to Rags—*Metamorphosis*).
- 🧱 The Journey: a Search or a Quest.
- 🧱 Romance.
- 🧱 Narratives in Left Nullspace: All Stories of The Many.

What about comedies?

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

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Stories are algorithms for life:

Homo narrativus:

- Provide dynamic paths and trajectories.
- 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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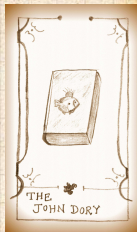
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The unifying theme of existence is existence:

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

 Hatchings.  Matchings.  Dispatchings.



The essence of all stories?

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It's survival—Life and Death:

- ☞ Kill the Monster: Bare survival.
- ☞ Rags to Riches: Flourishing.
- ☞ Romance: Matchings and Hatchings.
- ☞ Journey/Odyssey: Search for a salvation, a "Holy Grail".



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