

What's the Story?

Last updated: 2020/09/12, 12:45:25 EDT

Principles of Complex Systems, Vol. 1 | @pocsvox
CSYS/MATH 300, Fall, 2020

Prof. Peter Sheridan Dodds | @peterdodds

Computational Story Lab | Vermont Complex Systems Center
Vermont Advanced Computing Core | University of Vermont



PoCS, Vol. 1
What's the Story?
1 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Licensed under the *Creative Commons Attribution-NonCommercial-ShareAlike 3.0 License*.

These slides are brought to you by:

Sealie & Lambie
Productions



PoCS, Vol. 1
What's the Story?
2 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

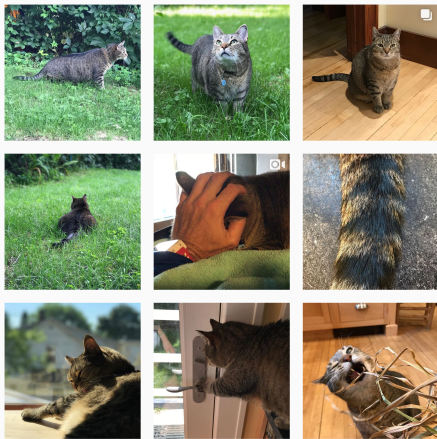
Moving ahead



References



These slides are also brought to you by:

Special Guest Executive Producer



 On Instagram at [pratchett_the_cat](https://www.instagram.com/pratchett_the_cat) 

PoCS, Vol. 1
What's the Story?
3 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Outline

Storytellers

Stories

Power

Taxonomy

Essence

Memory & Turbulence

Emotional Arcs

Moving ahead

References

PoCS, Vol. 1
What's the Story?
4 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Story editor:

PoCS, Vol. 1
What's the Story?
5 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs


Moving ahead





References



Super Survival of the Stories:



The Desirability
of
Storytellers ,
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.



Major competing storytelling entities:

- News.
- Books, magazines.
- Art.
- Music industry.
- Television, movie studios, Netflix, HBO, Disney.
- Social media: Facebook, Instagram, Snapchat, ...
- All sport.
- Video games.
- Religions, ideologies, belief systems, Freemasons, ...
- Enduring coherent groups: Cultures, countries, cities, ...

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Major competing storytelling entities:

- 📦 News.
- 📦 Books, magazines.
- 📦 Art.
- 📦 Music industry.
- 📦 Television, movie studios, Netflix, HBO, Disney.
- 📦 Social media: Facebook, Instagram, Snapchat, ...
- 📦 All sport.
- 📦 Video games.
- 📦 Religions, ideologies, belief systems, Freemasons, ...
- 📦 Enduring coherent groups: Cultures, countries, cities, ...

Cultural products from Pantheon

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

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

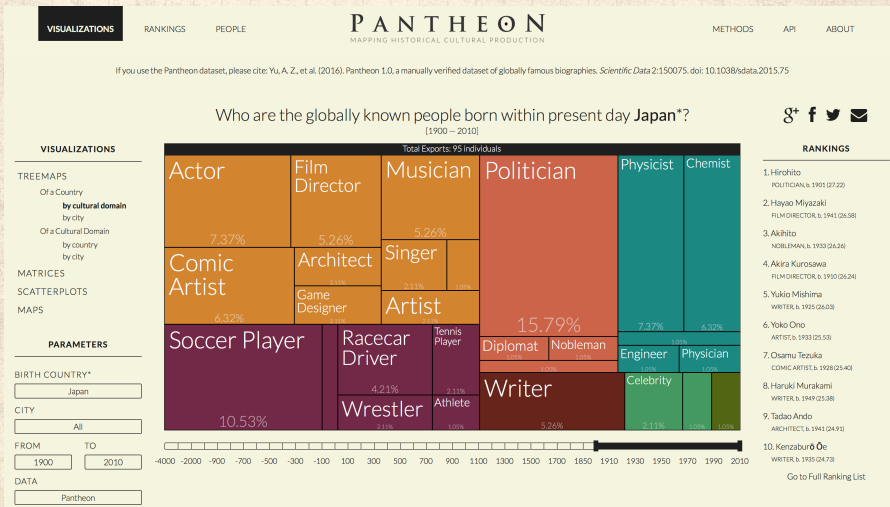
Emotional Arcs

Moving ahead

References



The famous are storytellers—Japan:



For people born 1950–

http://pantheon.media.mit.edu/treemap/country_exports/JP/all/1900/2010/H15/pantheon

The famous are storytellers—United States:

VISUALIZATIONS

RANKINGS

PEOPLE

PANTHEON
MAPPING HISTORICAL CULTURAL PRODUCTION

METHODS

API

ABOUT

If you use the Pantheon dataset, please cite: Yu, A. Z., et al. (2016). Pantheon 1.0, a manually verified dataset of globally famous biographies. *Scientific Data* 2:150075. doi: 10.1038/sdata.2015.75

Who are the globally known people born within present day United States*?

[1900 – 2010]



VISUALIZATIONS

TREEMAPS

- Of a Country
- by cultural domain
- by city
- Of a Cultural Domain
- by country
- by city

MATRICES

SCATTERPLOTS

MAPS

PARAMETERS

BIRTH COUNTRY*

United States

CITY

All

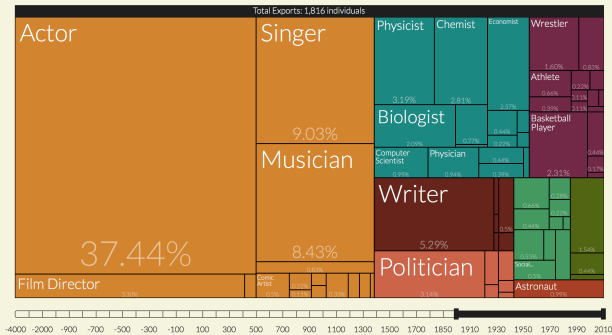
FROM TO

1900 2010

DATA

Pantheon

INDEX



RANKINGS

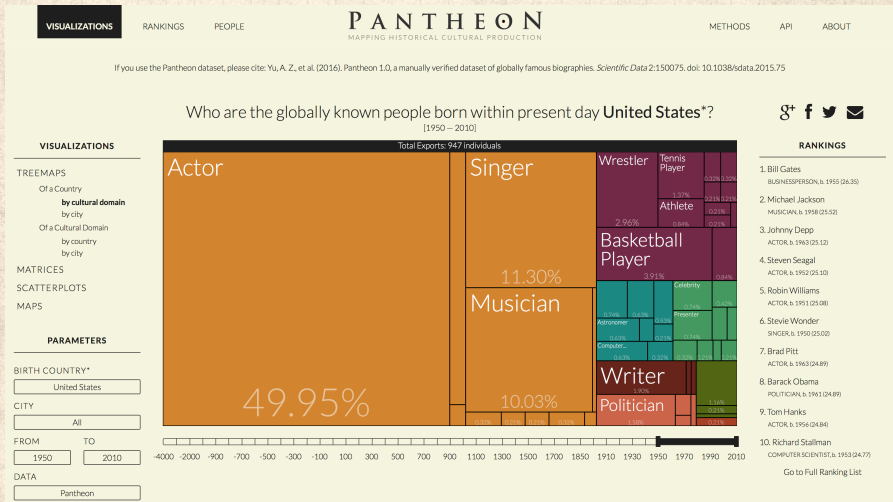
1. Martin Luther King, Jr.
SOCIAL ACTIVIST, b. 1929 (28.6%)
2. Elvis Presley
SINGER, b. 1935 (28.6%)
3. Marilyn Monroe
ACTRESS, b. 1926 (28.3%)
4. Walt Disney
PRODUCER, b. 1901 (28.1%)
5. Jimi Hendrix
MUSICIAN, b. 1942 (27.9%)
6. Andy Warhol
ARTIST, b. 1928 (27.9%)
7. Bruce Lee
ACTOR, b. 1940 (27.8%)
8. Bob Dylan
MUSICIAN, b. 1941 (27.7%)
9. John F. Kennedy
POLITICIAN, b. 1917 (27.6%)
10. Stanley Kubrick
FILM DIRECTOR, b. 1928 (27.5%)

[Go to Full Ranking List](#)

For people born 1950–

http://pantheon.media.mit.edu/treemap/country_exports/US/all/1950/2010/H15/pantheon

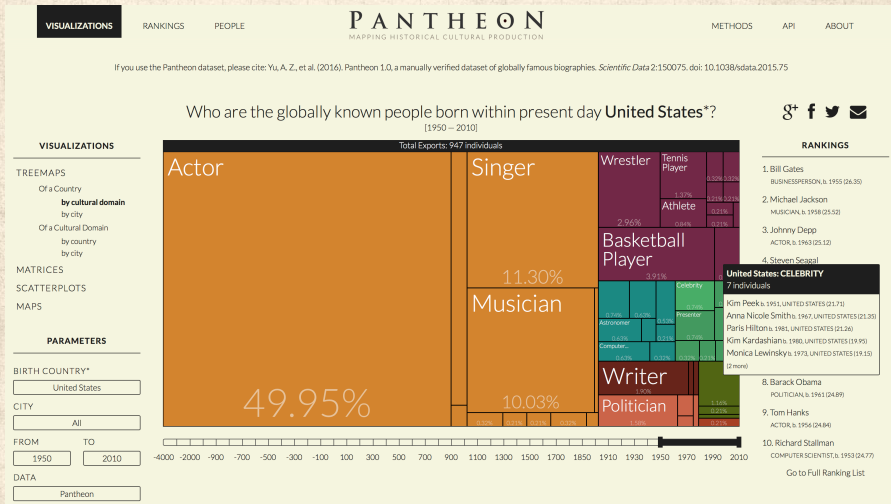
The famous are storytellers—United States:



For people born 1950–

http://pantheon.media.mit.edu/treemap/country_exports/US/all/1950/2010/H15/pantheon

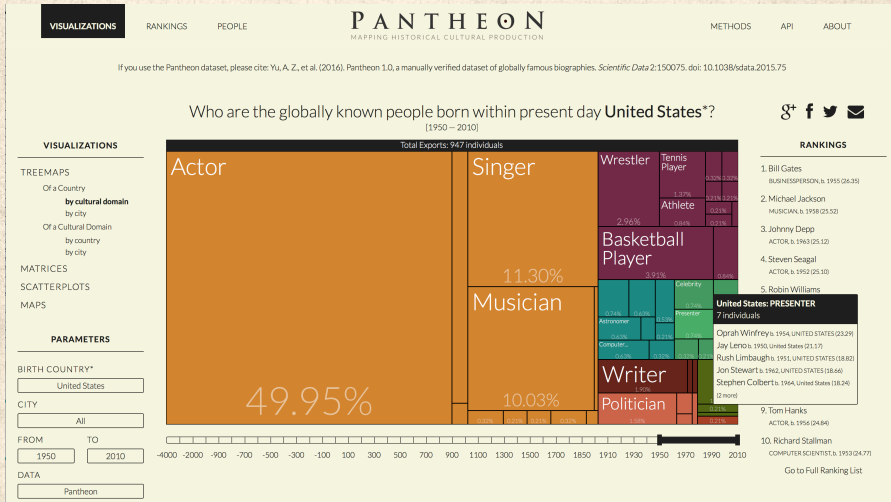
The famous are storytellers—United States:



For people born 1950–

http://pantheon.media.mit.edu/treemap/country_exports/US/all/1950/2010/H15/pantheon

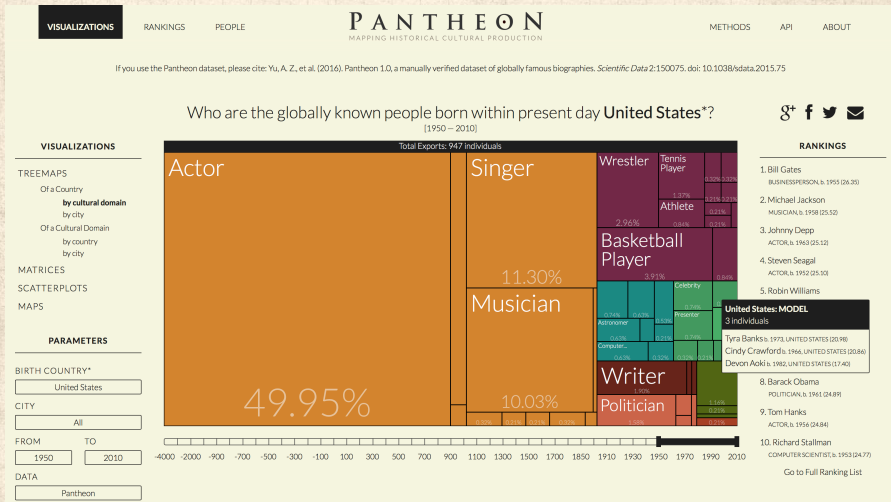
The famous are storytellers—United States:



For people born 1950–

http://pantheon.media.mit.edu/treemap/country_exports/US/all/1950/2010/H15/pantheon

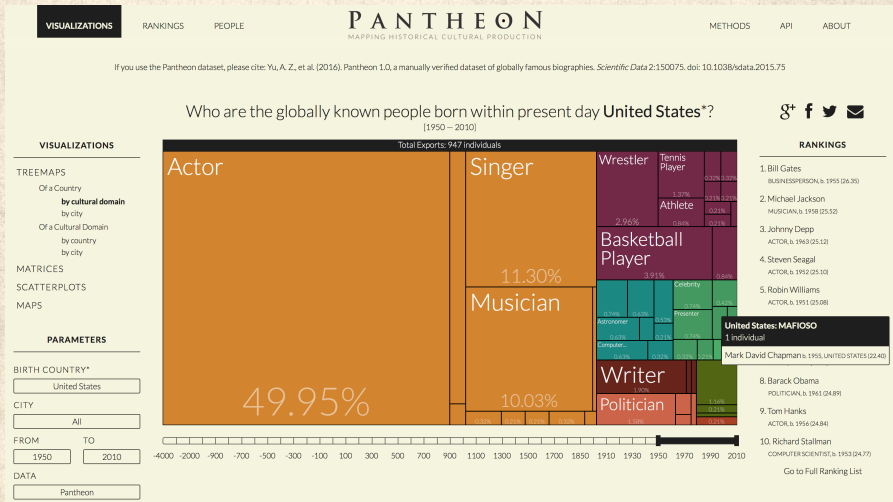
The famous are storytellers—United States:



For people born 1950–

http://pantheon.media.mit.edu/treemap/country_exports/US/all/1950/2010/H15/pantheon

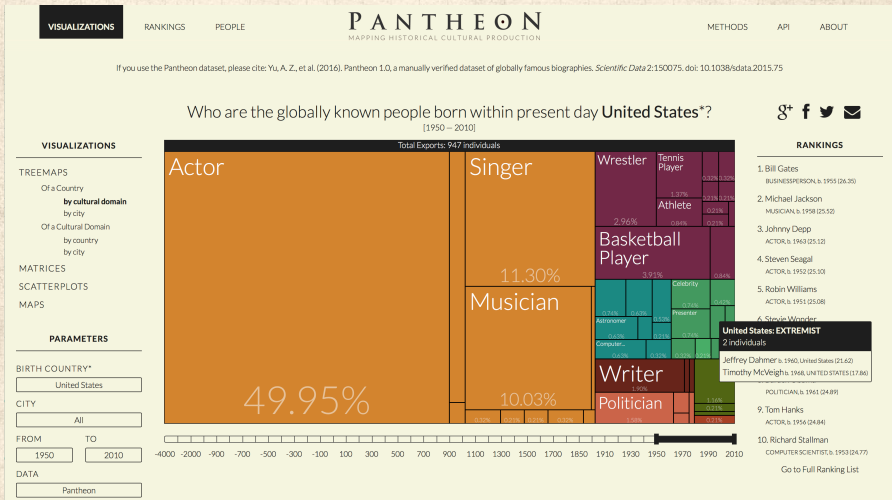
The famous are storytellers—United States:



For people born 1950–

http://pantheon.media.mit.edu/treemap/country_exports/US/all/1950/2010/H15/pantheon

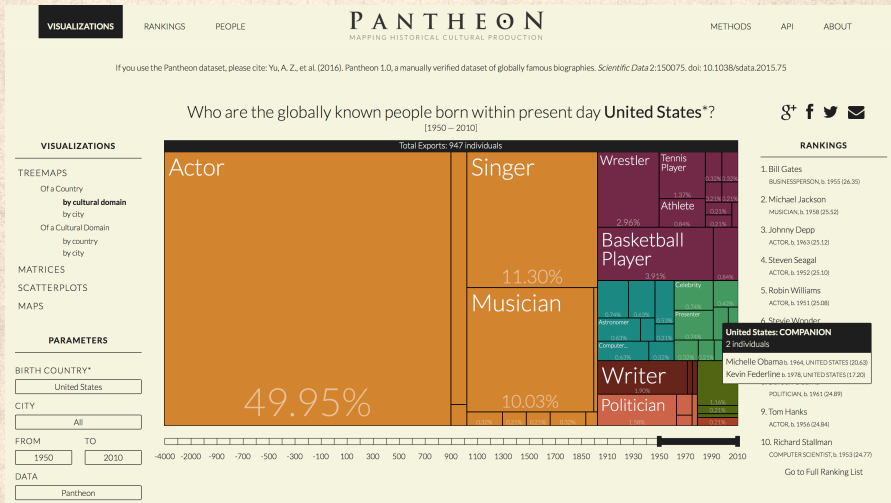
The famous are storytellers—United States:



For people born 1950–

http://pantheon.media.mit.edu/treemap/country_exports/US/all/1950/2010/H15/pantheon

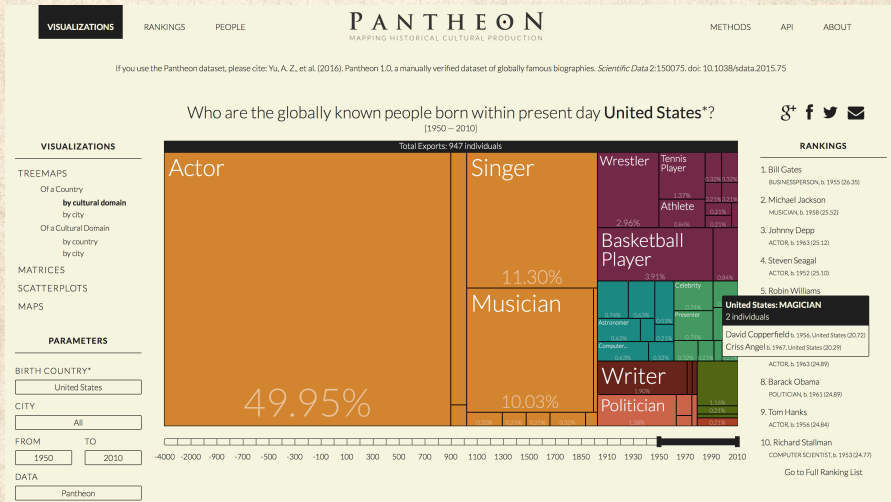
The famous are storytellers—United States:



For people born 1950–

http://pantheon.media.mit.edu/treemap/country_exports/US/all/1950/2010/H15/pantheon

The famous are storytellers—United States:



For people born 1950–

http://pantheon.media.mit.edu/treemap/country_exports/US/all/1950/2010/H15/pantheon

The famous are storytellers—United States:

VISUALIZATIONS

RANKINGS

PEOPLE

PANTHEON
MAPPING HISTORICAL CULTURAL PRODUCTION

METHODS

API

ABOUT

If you use the Pantheon dataset, please cite: Yu, A. Z., et al. (2016). Pantheon 1.0, a manually verified dataset of globally famous biographies. *Scientific Data* 2:150075. doi: 10.1038/sdata.2015.75

Who are the globally known people born within present day United States*?

[1950 – 2010]



VISUALIZATIONS

TREEMAPS

- Of a Country
- by cultural domain
- by city
- Of a Cultural Domain
- by country
- by city

MATRICES

SCATTERPLOTS

MAPS

PARAMETERS

BIRTH COUNTRY*

United States

CITY

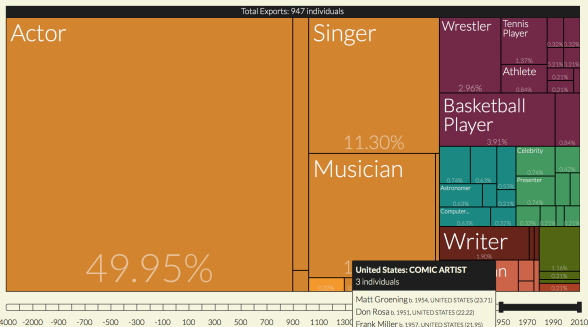
All

FROM TO

1950 2010

DATA

Pantheon



RANKINGS

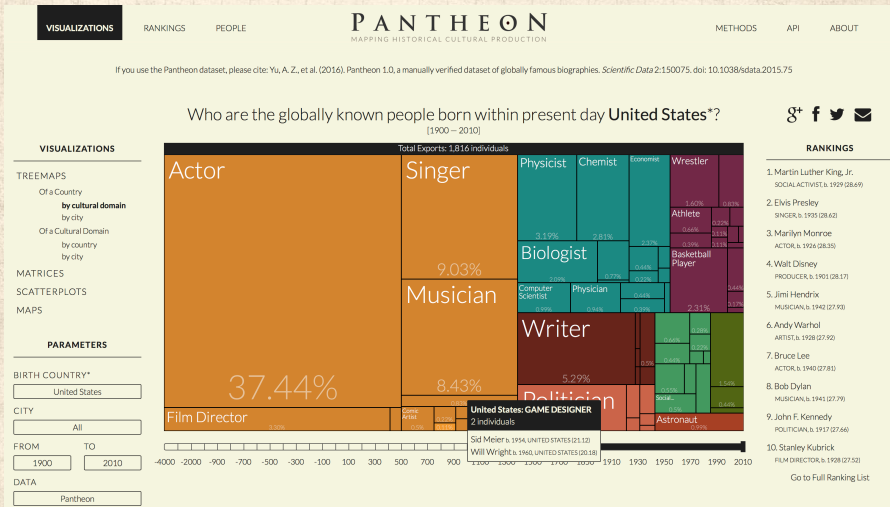
1. Bill Gates
BUSINESSPERSON, b. 1955 (26.35)
2. Michael Jackson
MUSICIAN, b. 1958 (25.52)
3. Johnny Depp
ACTOR, b. 1963 (25.12)
4. Steven Seagal
ACTOR, b. 1952 (25.10)
5. Robin Williams
ACTOR, b. 1951 (25.08)
6. Stevie Wonder
SINGER, b. 1950 (25.02)
7. Brad Pitt
ACTOR, b. 1963 (24.89)
8. Barack Obama
POLITICIAN, b. 1961 (24.89)
9. Tom Hanks
ACTOR, b. 1956 (24.84)
10. Richard Stallman
COMPUTER SCIENTIST, b. 1953 (24.77)

[Go to Full Ranking List](#)

For people born 1950–

http://pantheon.media.mit.edu/treemap/country_exports/US/all/1950/2010/H15/pantheon

Storytellers win:



For people born 1900–

http://pantheon.media.mit.edu/treemap/country_exports/US/all/1900/2010/H15/pantheon

If you use the Pantheon dataset, please cite: Yu, A. Z., et al. (2016). Pantheon 1.0, a manually verified dataset of globally famous biographies. *Scientific Data* 2:150075. doi: 10.1038/sdata.2015.75

Who are the globally known people born within present day United States*? [1950 – 2010]



VISUALIZATIONS

TREEMAPS

- Of a Country
- by cultural domain
- by city
- Of a Cultural Domain
- by country
- by city

MATRICES

SCATTERPLOTS

MAPS

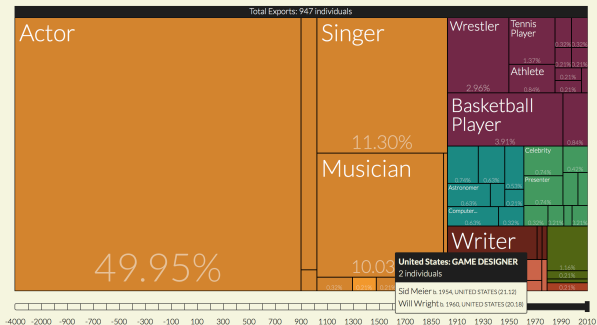
PARAMETERS

BIRTH COUNTRY*

CITY

FROM TO

DATA

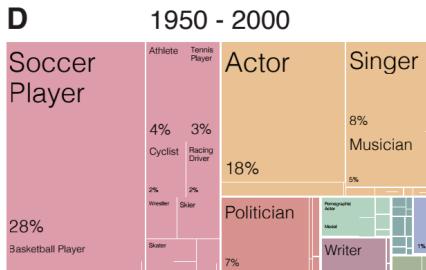
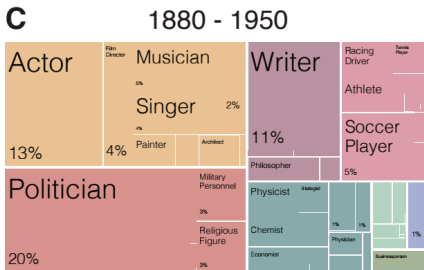
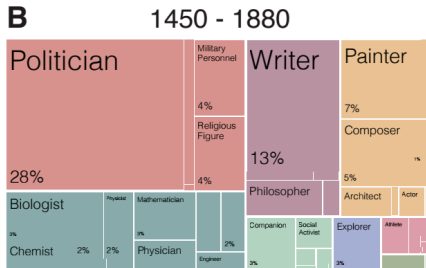
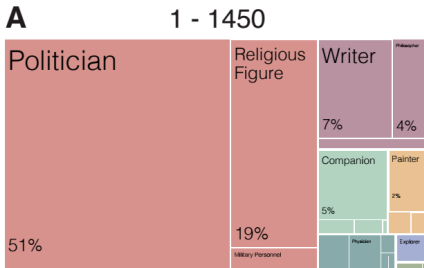
**RANKINGS**

1. Bill Gates
BUSINESSPERSON, b. 1955 (26.35)
2. Michael Jackson
MUSICIAN, b. 1958 (25.52)
3. Johnny Depp
ACTOR, b. 1963 (25.12)
4. Steven Seagal
ACTOR, b. 1952 (25.33)
5. Robin Williams
ACTOR, b. 1951 (25.06)
6. Stevie Wonder
SINGER, b. 1950 (25.02)
7. Brad Pitt
ACTOR, b. 1963 (24.89)
8. Barack Obama
POLITICIAN, b. 1961 (24.89)
9. Tom Hanks
ACTOR, b. 1956 (24.84)
10. Richard Stallman
COMPUTERSCIENTIST, b. 1953 (24.77)

[Go to Full Ranking List](#)

For people born 1950–

http://pantheon.media.mit.edu/treemap/country_exports/US/all/1950/2010/H15/pantheon



It's all about algorithms (stories):

PoCS, Vol. 1
What's the Story?
14 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



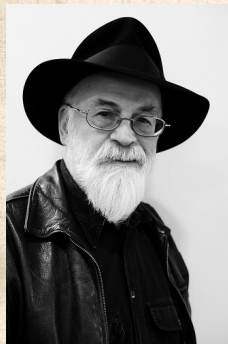
“On the Origin of Stories: Evolution, Cognition, and Fiction” [a](#) [↗](#)
by Brian Boyd (2010). ^[4]





“The Storytelling Animal: How Stories Make Us Human” [a](#) [↗](#)
by Jonathan Gottschall (2013). ^[11]




(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."

PoCS, Vol. 1
What's the Story?
15 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



We see (certain kinds of) stories:

<http://www.youtube.com/watch?v=VTNmLt7QX8E?rel=0>

Heider and Simmel, 1944^[12]



Simple Definitions:

 Story: a laying out of a temporal sequence of events.

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence



Emotional Arcs


Moving ahead

References







Simple Definitions:

 Story: a laying out of a temporal sequence of events.

 “Time is a great storyteller” (Irish proverb)








Simple Definitions:

-  Story: a laying out of a temporal sequence of events.
-  “Time is a great storyteller” (Irish proverb)
-  Events may be any balance of real and imagined.










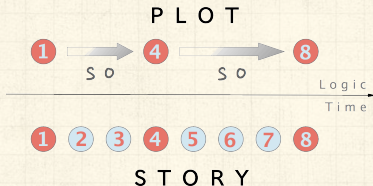
Simple Definitions:


-  Story : a laying out of a temporal sequence of events.
-  “Time is a great storyteller” (Irish proverb)
-  Events may be any balance of real and imagined.
-  Narrative \equiv Story.



Simple Definitions:

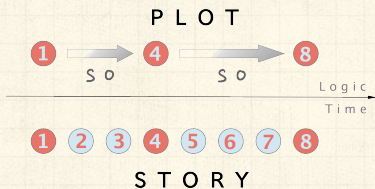
-  Story: a laying out of a temporal sequence of events.
-  "Time is a great storyteller" (Irish proverb)
-  Events may be any balance of real and imagined.
-  Narrative \equiv Story.
-  Plot: Essential sequence of a story's elements.¹




¹By まとりよ しか — Own work, CC BY-SA 4.0,

Simple Definitions:

- 🧱 Story ↗: a laying out of a temporal sequence of events.
- 🧱 "Time is a great storyteller" (Irish proverb)
- 🧱 Events may be any balance of real and imagined.
- 🧱 Narrative \equiv Story.
- 🧱 Plot ↗: Essential sequence of a story's elements.¹

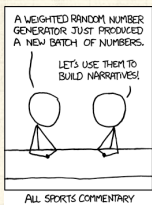


🧱 Plot = Algorithm

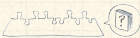
¹By まとりよ  しか — Own work, CC BY-SA 4.0,



Understanding the Sociotechnocene—Stories:



xkcd.com/904/



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.

PoCS, Vol. 1
What’s the Story?
18 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Understanding the Sociotechnocene—Stories:

PoCS, Vol. 1
What's the Story?
18 of 94

Storytellers

Stories

Power

Taxonomy

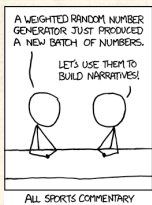
Essence

Memory &
Turbulence

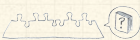
Emotional Arcs

Moving ahead

References



xkcd.com/904/



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, and stories from large-scale text/corpora.



Understanding the Sociotechnocene—Stories:

PoCS, Vol. 1
What's the Story?
18 of 94

Storytellers

Stories

Power

Taxonomy

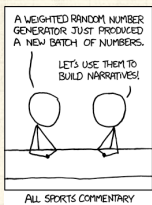
Essence

Memory &
Turbulence

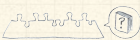
Emotional Arcs

Moving ahead

References



xkcd.com/904/



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, and stories from large-scale text/corpora.



Storywrangler, POTUSometer, ...



Understanding the Sociotechnocene—Stories:

PoCS, Vol. 1
What's the Story?
18 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

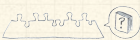
Emotional Arcs

Moving ahead

References



xkcd.com/904/



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, and stories from large-scale text/corpora.



Storywrangler, POTUSometer, ...



Research: What’s the taxonomy of human stories?



Understanding the Sociotechnocene—Stories:

PoCS, Vol. 1
What's the Story?
18 of 94

Storytellers

Stories

Power

Taxonomy

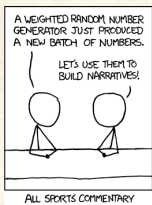
Essence

Memory &
Turbulence

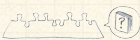
Emotional Arcs

Moving ahead

References



xkcd.com/904/



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, and stories from large-scale text/corpora.



Storywrangler, POTUSometer, ...



Research: What’s the taxonomy of human stories?



Maybe: Stories ↔ Algorithms

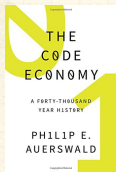


Algorithms are everywhere:

- 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 ...

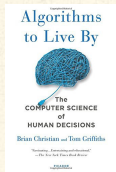


Algorithms, recipes, stories, ...



“The Code Economy: A Forty-Thousand Year History” [a](#) [↗](#)

by Philip E Auerswald (2017). [2]



“Algorithms to Live By” [a](#) [↗](#)

by Christian and Griffiths (2016). [8]



“Once Upon an Algorithm” [a](#) [↗](#)

by Martin Erwig (2017). [10]

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

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References





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

PoCS, Vol. 1
What's the Story?
22 of 94

Storytellers

Stories

Power

Taxonomy

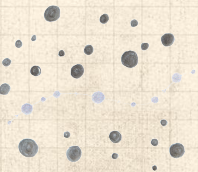
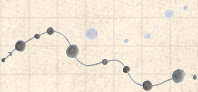
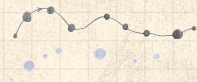
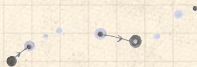
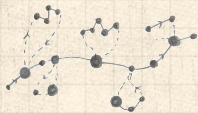
Essence

Memory &
Turbulence

Emotional Arcs

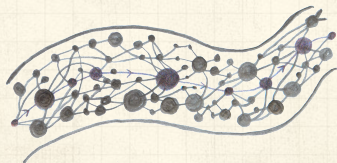
Moving ahead

References




Why adjacent narratives exist and untrue stories flourish:

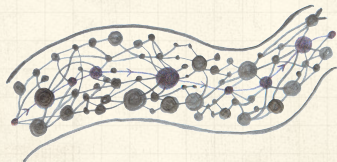
1/4. A real story is never recorded and retold completely



Why adjacent narratives exist and untrue stories flourish:

1/4. A real story is never recorded and retold completely

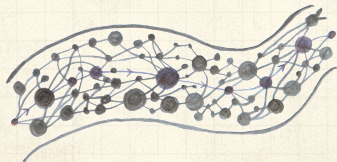
 Impossible to record every detail.



Why adjacent narratives exist and untrue stories flourish:

1/4. A real story is never recorded and retold completely

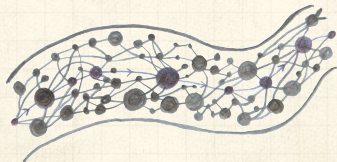
- Impossible to record every detail.
- Recording entails compression to scale of medium (narrative hierarchy).



Why adjacent narratives exist and untrue stories flourish:

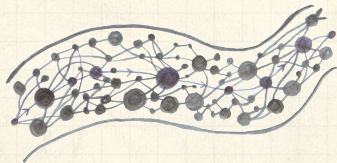
1/4. A real story is never recorded and retold completely

- 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:

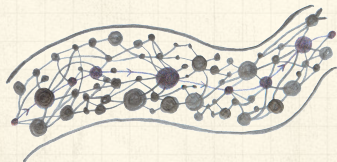
2/4. The infinitude of adjacent stories will afford “better” stories



Why adjacent narratives exist and untrue stories flourish:

2/4. The infinitude of adjacent stories will afford “better” stories

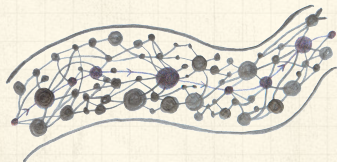
 Better = More engaging, more motivating to spread, more durable under spreading.



Why adjacent narratives exist and untrue stories flourish:

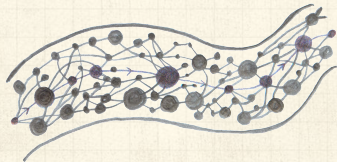
2/4. The infinitude of adjacent stories will afford “better” stories

- 🧱 Better = More engaging, more motivating to spread, more durable under spreading.
- 🧱 Better stories exist for truthful recorders and retellers (journalists).




Why adjacent narratives exist and untrue stories flourish:

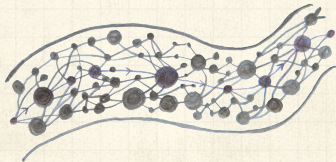
3/4. The infinitude of adjacent stories means “better” stories exist for those who would disinform



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.



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.



Why adjacent narratives exist and untrue stories flourish:

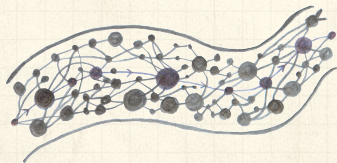
3/4. The infinitude of adjacent stories means “better” stories exist for those who would disinform

- 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).




Why adjacent narratives exist and untrue stories flourish:

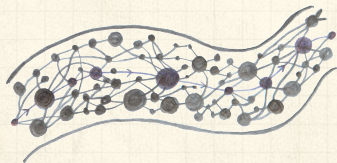
4/4. Character is the short cut to story



Why adjacent narratives exist and untrue stories flourish:



4/4. Character is the short cut to story

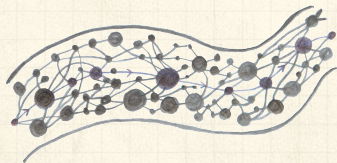
 The barely implausible can be believed if the character can make it so.



Why adjacent narratives exist and untrue stories flourish:




4/4. Character is the short cut to story

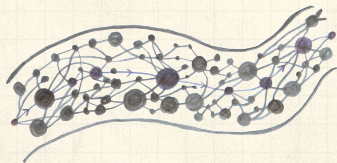
-  The barely implausible can be believed if the character can make it so.
-  A believe-to-be evil character can do anything.




Why adjacent narratives exist and untrue stories flourish:


4/4. Character is the short cut 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.



1999 Gallup poll: [↗](#)

 6% of Americans said the lunar landings were fake.

 5% were undecided.

 Video replay [↗](#) (The Comments).

Buzz Aldrin has enough:

PoCS, Vol. 1
What's the Story?
27 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Storytellers

Stories

Power

Taxonomy


Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References

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

Highlights:

 The Earth is flat. <https://www.tfes.org> .



Storytellers

Stories

Power

Taxonomy


Essence

Memory &
Turbulence

Emotional Arcs



Moving ahead

References

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

Highlights:

 The Earth is flat. <https://www.tfes.org> .

 The Beatles never existed:
<http://www.thebeatlesneverexisted.com> .



Storytellers

Stories

Power

Taxonomy


Essence

Memory &
Turbulence

Emotional Arcs


Moving ahead

References


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

Highlights:



The Earth is flat. <https://www.tfes.org> .



The Beatles never existed:
<http://www.thebeatlesneverexisted.com> .



Per the title, JK Rowling doesn't exist.



Storytellers

Stories

Power

Taxonomy


Essence

Memory &
Turbulence

Emotional Arcs


Moving ahead

References


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

Highlights:



The Earth is flat. <https://www.tfes.org> .




The Beatles never existed:
<http://www.thebeatlesneverexisted.com> .



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](#) 



Storytellers

Stories

Power

Taxonomy


Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References

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


Highlights:



The Earth is flat. <https://www.tfes.org> .




The Beatles never existed:

<http://www.thebeatlesneverexisted.com> .



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](#) 



A. "Yes. Yes it is."



Storytellers

Stories

Power

Taxonomy



Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References

 Phantom time hypothesis :



Storytellers

Stories

Power

Taxonomy

Essence


Memory &
Turbulence


Emotional Arcs

Moving ahead

References



Phantom time hypothesis 

 The years 614–911 AD never existed.



Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence



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.



Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence




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.










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.











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.





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.



Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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)












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)
- Columbine, references to Natural Born Killers (NBK)














Stories influence people, for good or bad:

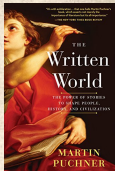
-  [Parasocial relationships](#)  (Cosplay)
-  [Allusionist 82. A Novel Remedy](#) 
-  Agatha Christie type murder mysteries: A salve post the Great War.
-  Representation matters—possible future paths (narrative hodology)
-  Columbine, references to Natural Born Killers (NBK)
-  [Natural Born Killers copycat crimes](#) 



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)
-  Columbine, references to Natural Born Killers (NBK)
-  [Natural Born Killers copycat crimes](#) 
-  [Aurora, Colorado shooting](#)  (Joker)





"The Written World: How Literature Shaped Civilization" [a](#) [🔗](#)

by Martin Puchner (2017). ^[17]

We are what we read [🔗](#) (NYT)

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

PoCS, Vol. 1
What's the Story?
32 of 94

Storytellers

Stories

Power

Taxonomy

Essence

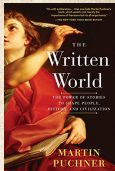
Memory &
Turbulence

Emotional Arcs

Moving ahead

References





“The Written World: How Literature Shaped Civilization” [a](#) [🔗](#)

by Martin Puchner (2017). [17]

We are what we read [🔗](#) (NYT)

“Storytelling is as human as breathing. When **fabulation** 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 ...

PoCS, Vol. 1
What's the Story?
32 of 94

Storytellers

Stories

Power

Taxonomy

Essence

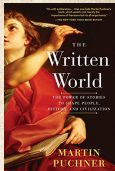
Memory &
Turbulence

Emotional Arcs

Moving ahead

References







“The Written World: How Literature Shaped Civilization” [a](#) [↗](#)

by Martin Puchner (2017). [17]

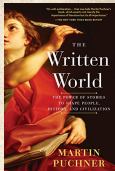
We are what we read [↗](#) (NYT)

“Storytelling is as human as breathing. When **fabulation** 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








“The Written World: How Literature Shaped Civilization” [a](#) [↗](#)

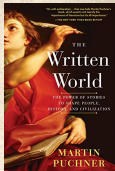
by Martin Puchner (2017). ^[17]

We are what we read [↗](#) (NYT)

“Storytelling is as human as breathing. When **fabulation** 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 [↗](#)









“The Written World: How Literature Shaped Civilization” [a](#) [↗](#)

by Martin Puchner (2017). ^[17]

We are what we read [↗](#) (NYT)

“Storytelling is as human as breathing. When **fabulation** 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 [↗](#)

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Storytellers

Stories

Power

Taxonomy

Essence

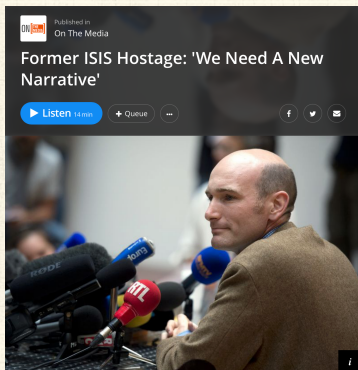
Memory &
Turbulence

Emotional Arcs

Moving ahead

References

Story Wars:







Published in
On The Media

Former ISIS Hostage: 'We Need A New Narrative'

▶ Listen 14 min + Queue ...

f t e



 **Nicholas Hénin** 
French Journalist,
held captive for 10
months 



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.

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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.

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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.

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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.**

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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.

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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.

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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.

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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.

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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.

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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.**

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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]

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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.

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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?

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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.

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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.

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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.

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



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.”

PoCS, Vol. 1
What's the Story?
35 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



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.”

PoCS, Vol. 1
What's the Story?
35 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



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.” ”

PoCS, Vol. 1
What's the Story?
35 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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




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.onthedia.org> 



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



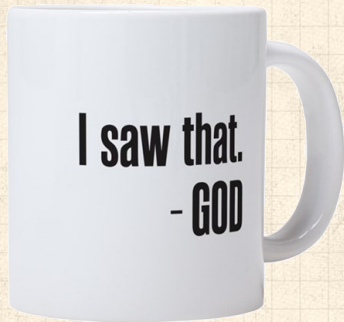
Trump's Reality Distortion Field ,
<http://www.onthemedial.org> 



“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.”



Stories generated the first surveillance state:



 Low tech, low cost.

PoCS, Vol. 1
What's the Story?
37 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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.



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.



Defend the Story:

The Ten 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

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Defend the Story:

The Ten 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"



Defend the Story:

The Ten 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

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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.



Book (story) burning (451 °F)



PoCS, Vol. 1
What's the Story?
40 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References

The American Dream = Rags to Riches



Storytellers

Stories

Power

Taxonomy

Essence


Memory &
Turbulence

Emotional Arcs

Moving ahead

References

The American Dream = Rags to Riches

 The story that anyone can become King or Queen.



Storytellers

Stories

Power

Taxonomy

Essence


Memory &
Turbulence


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.



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 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.




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.





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]



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

PoCS, Vol. 1
What's the Story?
42 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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.



Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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,



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



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.



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,



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.”




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,




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.”




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




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,



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 generations²

PoCS, Vol. 1
What's the Story?
43 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



²Reality is being tested harshly

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References

Claim: Stories must have “real” substance to endure over generations²



Enormous disasters: Fabrications of real experiences.





²Reality is being tested harshly

Claim: Stories must have “real” substance to endure over generations²



Enormous disasters: Fabrications of real experiences.

 Plain old making stuff up: A million little pieces 

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References





²Reality is being tested harshly

Claim: Stories must have “real” substance to endure over generations²



Enormous disasters: Fabrications of real experiences.

 Plain old making stuff up: A million little pieces 
... Oprah will get you.





²Reality is being tested harshly

Claim: Stories must have “real” substance to endure over generations²



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 .



²Reality is being tested harshly

Claim: Stories must have “real” substance to endure over generations²



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](#).



²Reality is being tested harshly

Claim: Stories must have “real” substance to endure over generations²



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



²Reality is being tested harshly

Claim: Stories must have “real” substance to endure over generations²



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](#).



²Reality is being tested harshly

Claim: Stories must have “real” substance to endure over generations²



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.







²Reality is being tested harshly

Claim: Stories must have “real” substance to endure over generations²



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.







²Reality is being tested harshly

Claim: Stories must have “real” substance to endure over generations²



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.



²Reality is being tested harshly

Claim: Stories must have “real” substance to endure over generations²



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.



²Reality 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]

PoCS, Vol. 1
What's the Story?
44 of 94

Storytellers

Stories

Power

Taxonomy

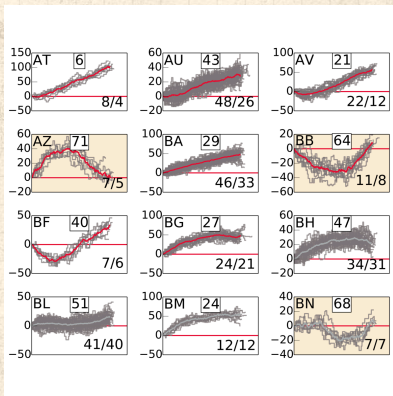
Essence

Memory &
Turbulence

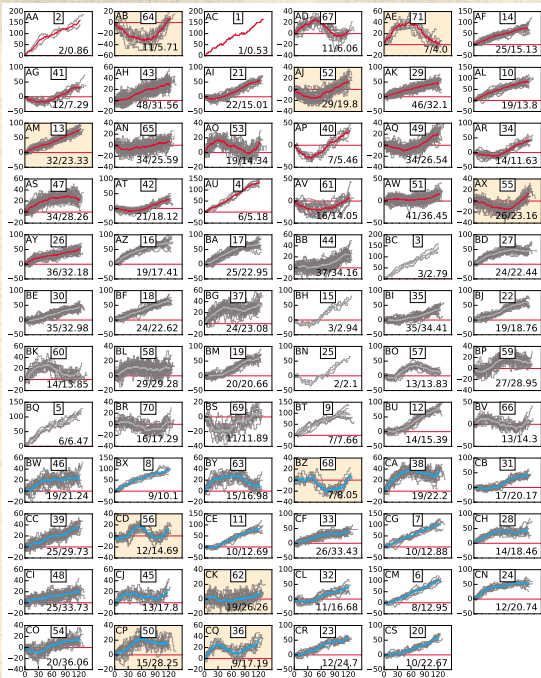
Emotional Arcs

Moving ahead

References



Sports = Spontaneous story producing systems



PoCS, Vol. 1
What's the Story?
45 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs



Moving ahead

References



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.”

PoCS, Vol. 1
What's the Story?
46 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References




Competitive Punning, The Economist, 2017-08-12



The quip and the dread

Why English is such a great language for puns

Gamers now even take part in world champunships

 Punster pseudonym: “Punder Enlightening”

Being funny, a grand challenge for AI:

 Wired (2014-04-01): It's Comedian vs. Computer in a Battle for Humor Supremacy . Myq Kaplan pun-off.

PoCS, Vol. 1
What's the Story?
47 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References




Competitive Punning, The Economist, 2017-08-12



The quip and the dread


Why English is such a great language for puns

Gamers now even take part in world championships

 Punster pseudonym: “Punder Enlightening”

Being funny, a grand challenge for AI:

 Wired (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”

PoCS, Vol. 1
What’s the Story?
47 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References




Competitive Punning, The Economist, 2017-08-12



The quip and the dread


Why English is such a great language for puns


Gamers now even take part in world champunships

 Punster pseudonym: “Punder Enlightening”

Being funny, a grand challenge for AI:

 Wired (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.”

PoCS, Vol. 1
What’s the Story?
47 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

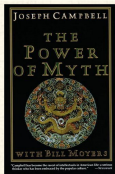
Emotional Arcs

Moving ahead

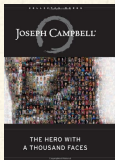
References



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



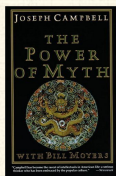
"The Power of Myth" [a](#) [↗](#)
by Campbell and Moyers (1991). [6]



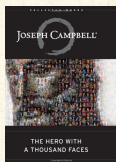
"The Hero with a Thousand Faces" [a](#) [↗](#)
by Joseph Campbell (2008). [5]



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



"The Power of Myth" [a](#) [↗](#)
by Campbell and Moyers (1991). [6]



"The Hero with a Thousand Faces" [a](#) [↗](#)
by Joseph Campbell (2008). [5]

Highly influential but it's a trap! [↗](#)



Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence



Emotional Arcs

Moving ahead

References

How to write a screenplay:



"Save the Cat!"  
by Blake Snyder (2005). [20]





9 acts.



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.



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.



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.



How to write a screenplay:

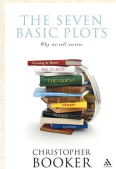


"Save the Cat!"  
by Blake Snyder (2005). [20]

-  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.



Seven "good" stories?:



"The Seven Basic Plots: Why We Tell Stories" [a](#) [↗](#)
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).

PoCS, Vol. 1
What's the Story?
50 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

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 

PoCS, Vol. 1
What's the Story?
51 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



contributed articles




“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.”





“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.”’ 





"The phylogeny of Little Red Riding Hood"

Jamshid J. Tehrani,

PLoS ONE, **8**, e78871, 2013. [21]

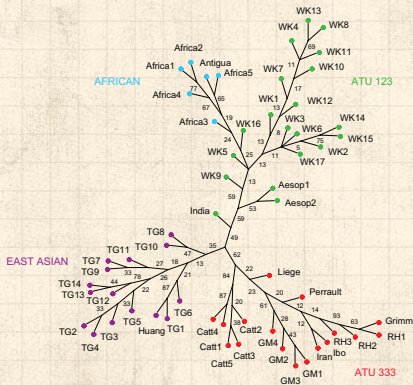


Figure 2. Majority-rules consensus of the most parsimonious trees returned by the cladistic analysis of the tales. Major groupings are labelled by region or ATU international type and indicated by the coloured nodes. Sub-types are indicated in the taxa labels (RH = Little Red Riding Hood; GM = Story 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

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs


Moving ahead

References



The taxonomy of stories:

Fundamental arcs:

 Kill the Monster.

PoCS, Vol. 1
What's the Story?
54 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs



Moving ahead

References



The taxonomy of stories:

Fundamental arcs:

-  Kill the Monster.
-  Rags to Riches (and Riches to Rags—*Metamorphosis*).

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs




Moving ahead

References



The taxonomy of stories:





Fundamental arcs:

-  Kill the Monster.
-  Rags to Riches (and Riches to Rags—*Metamorphosis*).
-  Journey/Odyssey: Search for a salvation, a “Holy Grail”.



The taxonomy of stories:

Fundamental arcs:

-  Kill the Monster.
-  Rags to Riches (and Riches to Rags—*Metamorphosis*).
-  Journey/Odyssey: Search for a salvation, a “Holy Grail”.
-  Romance.



The taxonomy of stories:

Fundamental arcs:

- 🧱 Kill the Monster.
- 🧱 Rags to Riches (and Riches to Rags—*Metamorphosis*).
- 🧱 Journey/Odyssey: Search for a salvation, a “Holy Grail”.
- 🧱 Romance.
- 🧱 Narratives in Left Nullspace: Again, All Stories of The Many.



The taxonomy of stories:

Fundamental arcs:

- 🧱 Kill the Monster.
- 🧱 Rags to Riches (and Riches to Rags—*Metamorphosis*).
- 🧱 Journey/Odyssey: Search for a salvation, a “Holy Grail”.
- 🧱 Romance.
- 🧱 Narratives in Left Nullspace: Again, All Stories of The Many.

What about comedies?



The taxonomy of stories:

Fundamental arcs:

- 🧱 Kill the Monster.
- 🧱 Rags to Riches (and Riches to Rags—*Metamorphosis*).
- 🧱 Journey/Odyssey: Search for a salvation, a “Holy Grail”.
- 🧱 Romance.
- 🧱 Narratives in Left Nullspace: Again, All Stories of The Many.

What about comedies?

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



Stories are algorithms for life:

Homo narrativus:

PoCS, Vol. 1
What's the Story?
55 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs


Moving ahead

References



Stories are algorithms for life:

Homo narrativus:

 Provide dynamic paths and trajectories.

PoCS, Vol. 1
What's the Story?
55 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs


Moving ahead


References



Stories are algorithms for life:

Homo narrativus:

 Provide dynamic paths and trajectories.

 If this, then that.

PoCS, Vol. 1
What's the Story?
55 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



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.

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



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.



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.

Proverbs as algorithms (hero: Wolfgang Mieder):

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



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.

Proverbs as algorithms (hero: Wolfgang Mieder):

- "Pride cometh before the fall."



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.

Proverbs as algorithms (hero: Wolfgang Mieder):

- "Pride cometh before the fall."
- "A stitch in time saves nine."



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.

Proverbs as algorithms (hero: Wolfgang Mieder):

- "Pride cometh before the fall."
- "A stitch in time saves nine."
- "Look before you leap."



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.

Proverbs as algorithms (hero: Wolfgang Mieder):

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



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.

Proverbs as algorithms (hero: Wolfgang Mieder):

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



Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References

Hatchings, Matchings, and Dispatchings:



Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



The boiled-down essence of stories:

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

PoCS, Vol. 1
What's the Story?
57 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs


Moving ahead

References



The boiled-down essence of stories:

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

 Hatchings, Matchings, and Dispatchings.

PoCS, Vol. 1
What's the Story?
57 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



The boiled-down essence of stories:

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

- 🧱 Hatchings, Matchings, and Dispatchings.
- 🧱 Stories encode survival algorithms.

PoCS, Vol. 1
What's the Story?
57 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs




Moving ahead

References



The boiled-down essence of stories:

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

-  Hatchings, Matchings, and Dispatchings.
-  Stories encode survival algorithms.
-  Survival algorithms for individuals and groups.

PoCS, Vol. 1
What's the Story?
57 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



The boiled-down essence of stories:

PoCS, Vol. 1
What's the Story?
57 of 94

Storytellers

Stories

Power

Taxonomy

Essence





Memory &
Turbulence

Emotional Arcs

Moving ahead

References

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 boiled-down essence of stories:

PoCS, Vol. 1
What's the Story?
57 of 94

Storytellers

Stories

Power

Taxonomy

Essence






Memory &
Turbulence

Emotional Arcs

Moving ahead

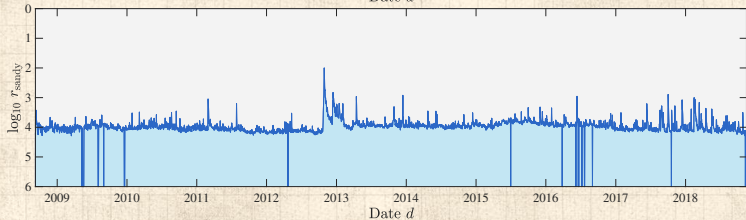
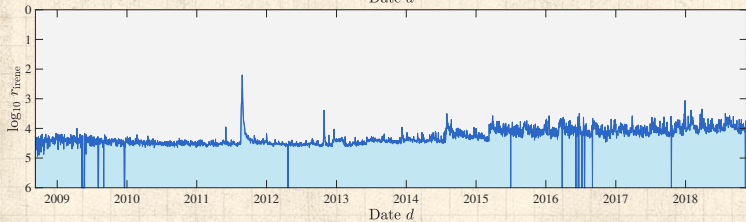
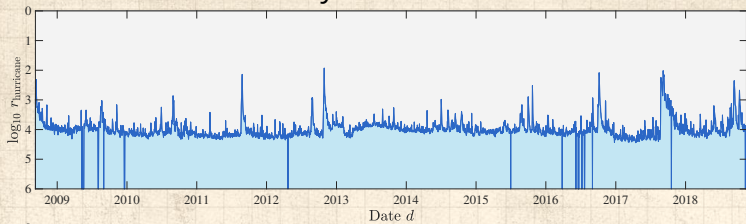
References

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.



Awareness and Memory: Hurricanes



PoCS, Vol. 1
What's the Story?
58 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory & Turbulence

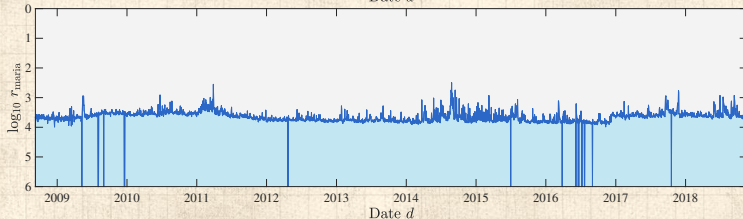
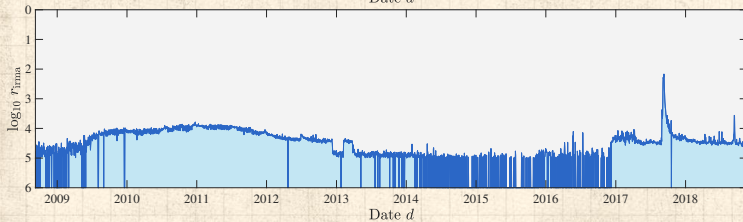
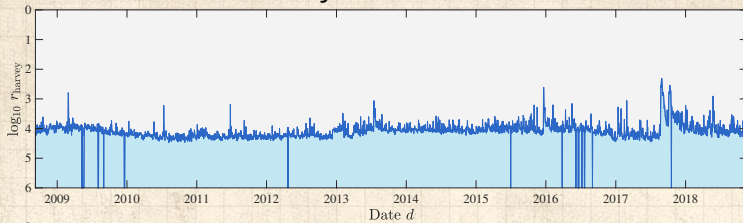
Emotional Arcs

Moving ahead

References



Awareness and Memory: Hurricanes



PoCS, Vol. 1
What's the Story?
59 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Storytellers

Stories

Power

Taxonomy

Essence

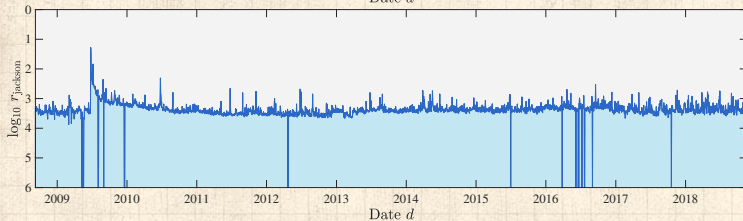
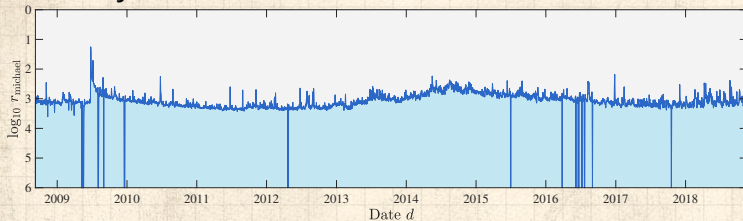
Memory &
Turbulence

Emotional Arcs

Moving ahead

References

Michael Jackson



Storytellers

Stories

Power

Taxonomy

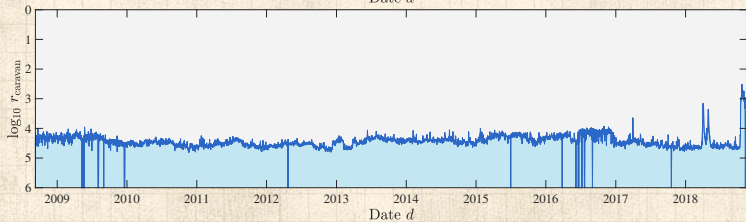
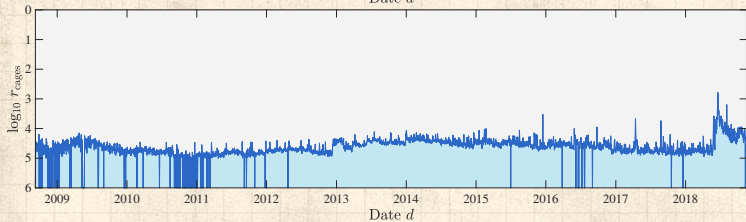
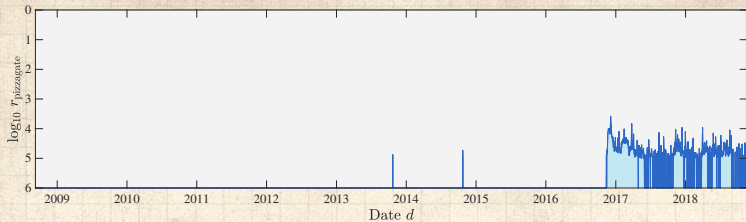
Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Storytellers

Stories

Power

Taxonomy

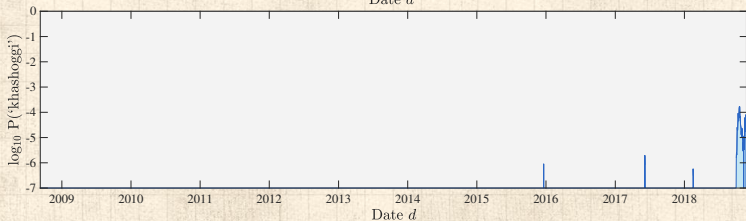
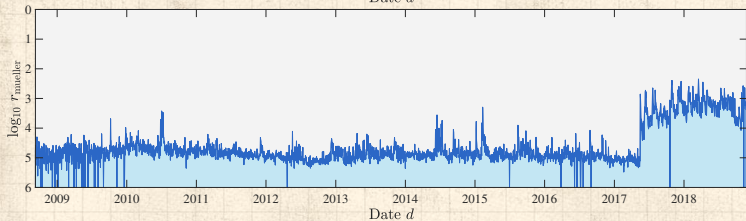
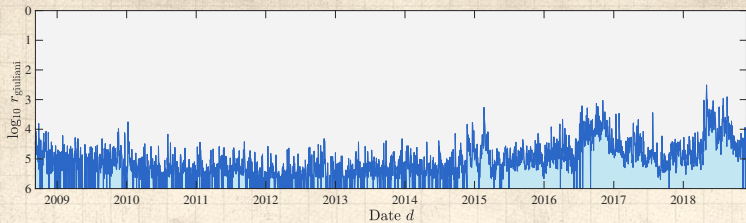
Essence

Memory &
Turbulence

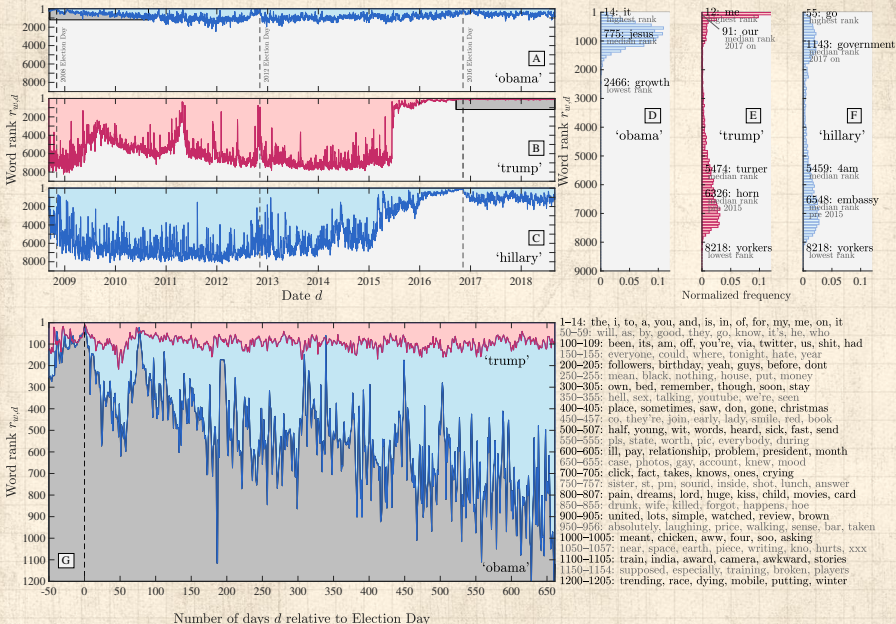
Emotional Arcs

Moving ahead

References



Lexical fame of POTUSes and possible POTUSes:



Story turbulence:

PoCS, Vol. 1
What's the Story?
64 of 94

Storytellers

Stories

Power

Taxonomy

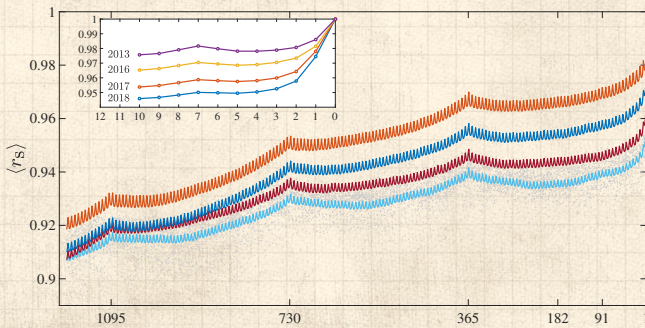
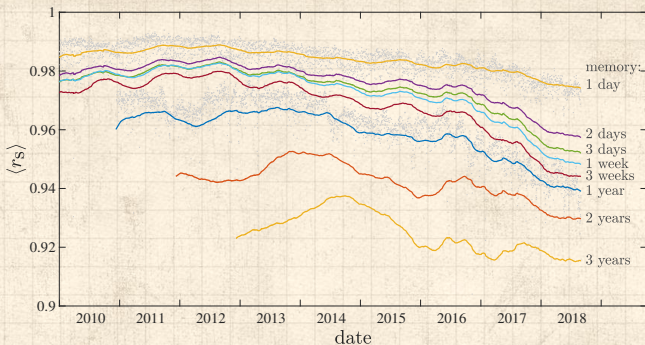
Essence

**Memory &
Turbulence**

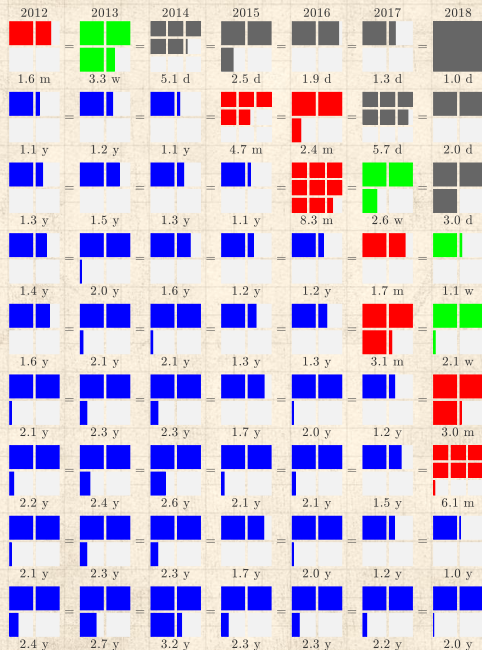
Emotional Arcs

Moving ahead

References



Story turbulence:



Storytellers

Stories

Power

Taxonomy

Essence

Memory &
 Turbulence

Emotional Arcs

Moving ahead

References



Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

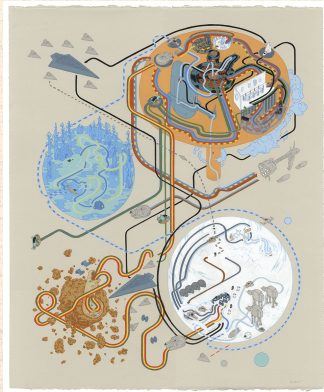
References

Kurt Vonnegut on the Shapes of Stories 





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



PoCS, Vol. 1
What's the Story?
68 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



<http://www.andrewdegraff.com/moviemaps/> [↗](#)

Storytellers

Stories

Power

Taxonomy

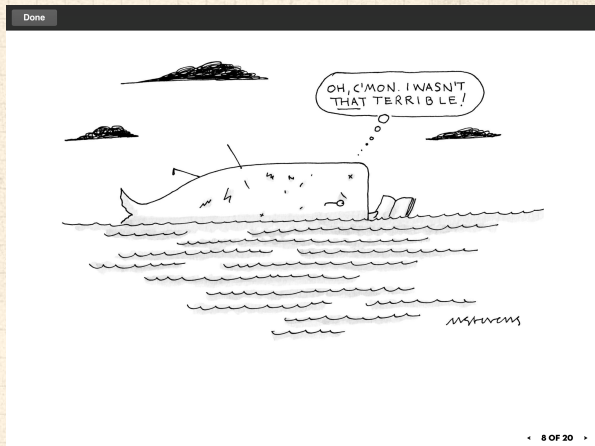
Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



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



Ron Swanson on metaphors:

PoCS, Vol. 1
What's the Story?
70 of 94

Storytellers

Stories

Power

Taxonomy


Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References

 "I hate metaphors. That's why my favorite book is Moby Dick. No frou-frou symbolism."



Ron Swanson on metaphors:

PoCS, Vol. 1
What's the Story?
70 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence



Emotional Arcs

Moving ahead

References

🧱 "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."



Aside: From a 2013 Believer Magazine 
interview with Maurice Sendak :

BLVR: Did the success of *Where the Wild Things Are* ever feel like an albatross?

PoCS, Vol. 1
What's the Story?
71 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Aside: From a 2013 Believer Magazine [↗](#)
interview with Maurice Sendak [↗](#):

BLVR: Did the success of *Where the Wild Things Are* ever feel like an albatross?

MS: It's a nice book.

PoCS, Vol. 1
What's the Story?
71 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Aside: From a 2013 Believer Magazine [interview with Maurice Sendak](#):

BLVR: Did the success of *Where the Wild Things Are* ever feel like an albatross?

MS: It's a nice book. It's perfectly nice.

PoCS, Vol. 1
What's the Story?
71 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Aside: From a 2013 Believer Magazine [↗](#)
interview with Maurice Sendak [↗](#):

BLVR: Did the success of *Where the Wild Things Are* ever feel like an albatross?

MS: It's a nice book. It's perfectly nice. I can't complain about it.

PoCS, Vol. 1
What's the Story?
71 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Aside: From a 2013 Believer Magazine [↗](#)
interview with Maurice Sendak [↗](#):

BLVR: Did the success of *Where the Wild Things Are* ever feel like an albatross?

MS: It's a nice book. It's perfectly nice. I can't complain about it. I remember Herman Melville said, "When I die no one is going to mention *Moby-Dick*."

PoCS, Vol. 1
What's the Story?
71 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Aside: From a 2013 Believer Magazine [interview with Maurice Sendak](#):

BLVR: Did the success of *Where the Wild Things Are* ever feel like an albatross?

MS: It's a nice book. It's perfectly nice. I can't complain about it. I remember Herman Melville said, "When I die no one is going to mention *Moby-Dick*. They're all going to talk about my first book, about forking maidens in Tahiti."

PoCS, Vol. 1
What's the Story?
71 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Aside: From a 2013 Believer Magazine [interview with Maurice Sendak](#):

BLVR: Did the success of *Where the Wild Things Are* ever feel like an albatross?

MS: It's a nice book. It's perfectly nice. I can't complain about it. I remember Herman Melville said, "When I die no one is going to mention *Moby-Dick*. They're all going to talk about my first book, about forking maidens in Tahiti." He was right.

PoCS, Vol. 1
What's the Story?
71 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Aside: From a 2013 Believer Magazine [interview with Maurice Sendak](#):

BLVR: Did the success of *Where the Wild Things Are* ever feel like an albatross?

MS: It's a nice book. It's perfectly nice. I can't complain about it. I remember Herman Melville said, "When I die no one is going to mention *Moby-Dick*. They're all going to talk about my first book, about forking maidens in Tahiti." He was right. No mention of *Moby-Dick* then.

PoCS, Vol. 1
What's the Story?
71 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Aside: From a 2013 Believer Magazine [interview with Maurice Sendak](#):

BLVR: Did the success of *Where the Wild Things Are* ever feel like an albatross?

MS: It's a nice book. It's perfectly nice. I can't complain about it. I remember Herman Melville said, "When I die no one is going to mention *Moby-Dick*. They're all going to talk about my first book, about forking maidens in Tahiti." He was right. No mention of *Moby-Dick* then. Everyone wanted another Tahitian book, a beach book.

PoCS, Vol. 1
What's the Story?
71 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Aside: From a 2013 Believer Magazine [interview with Maurice Sendak](#):

BLVR: Did the success of *Where the Wild Things Are* ever feel like an albatross?

MS: It's a nice book. It's perfectly nice. I can't complain about it. I remember Herman Melville said, "When I die no one is going to mention Moby-Dick. They're all going to talk about my first book, about forking maidens in Tahiti." He was right. No mention of Moby-Dick then. Everyone wanted another Tahitian book, a beach book. But then he kept writing deeper and deeper and then came Moby-Dick and people hated it.

PoCS, Vol. 1
What's the Story?
71 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Aside: From a 2013 Believer Magazine [interview with Maurice Sendak](#):

BLVR: Did the success of *Where the Wild Things Are* ever feel like an albatross?

MS: It's a nice book. It's perfectly nice. I can't complain about it. I remember Herman Melville said, "When I die no one is going to mention Moby-Dick. They're all going to talk about my first book, about forking maidens in Tahiti." He was right. No mention of Moby-Dick then. Everyone wanted another Tahitian book, a beach book. But then he kept writing deeper and deeper and then came Moby-Dick and people hated it. The only ones who liked it were Mr. and Mrs. Nathaniel Hawthorne.

PoCS, Vol. 1
What's the Story?
71 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Aside: From a 2013 Believer Magazine [interview with Maurice Sendak](#):

BLVR: Did the success of *Where the Wild Things Are* ever feel like an albatross?

MS: It's a nice book. It's perfectly nice. I can't complain about it. I remember Herman Melville said, "When I die no one is going to mention Moby-Dick. They're all going to talk about my first book, about forking maidens in Tahiti." He was right. No mention of Moby-Dick then. Everyone wanted another Tahitian book, a beach book. But then he kept writing deeper and deeper and then came Moby-Dick and people hated it. The only ones who liked it were Mr. and Mrs. Nathaniel Hawthorne. Moby-Dick didn't get famous until 1930.

PoCS, Vol. 1
What's the Story?
71 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead


References



Aside: From a 2013 Believer Magazine [interview with Maurice Sendak](#):

BLVR: Did the success of *Where the Wild Things Are* ever feel like an albatross?

MS: It's a nice book. It's perfectly nice. I can't complain about it. I remember Herman Melville said, "When I die no one is going to mention Moby-Dick. They're all going to talk about my first book, about forking maidens in Tahiti." He was right. No mention of Moby-Dick then. Everyone wanted another Tahitian book, a beach book. But then he kept writing deeper and deeper and then came Moby-Dick and people hated it. The only ones who liked it were Mr. and Mrs. Nathaniel Hawthorne. Moby-Dick didn't get famous until 1930.

 Sendak named his dog Herman.

PoCS, Vol. 1
What's the Story?
71 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead


References




Aside: From a 2013 [Believer Magazine](#) interview with Maurice Sendak:

BLVR: Did the success of *Where the Wild Things Are* ever feel like an albatross?

MS: It's a nice book. It's perfectly nice. I can't complain about it. I remember Herman Melville said, "When I die no one is going to mention Moby-Dick. They're all going to talk about my first book, about forking maidens in Tahiti." He was right. No mention of Moby-Dick then. Everyone wanted another Tahitian book, a beach book. But then he kept writing deeper and deeper and then came Moby-Dick and people hated it. The only ones who liked it were Mr. and Mrs. Nathaniel Hawthorne. Moby-Dick didn't get famous until 1930.

 Sendak named his dog Herman.

 The essential (true) Colbert interview: [Pt. 1](#) and [Pt. 2](#).

PoCS, Vol. 1
What's the Story?
71 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



The emotional shapes of stories—Moby Dick:

Storytellers

Stories

Power

Taxonomy

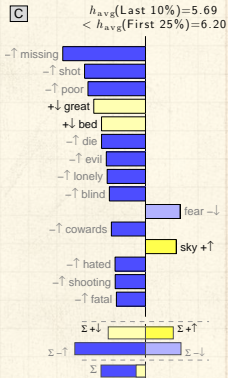
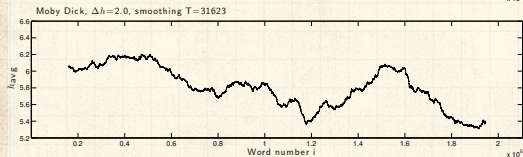
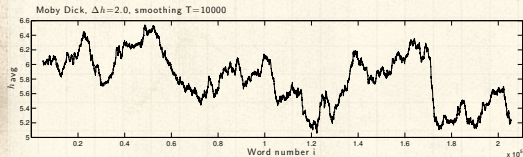
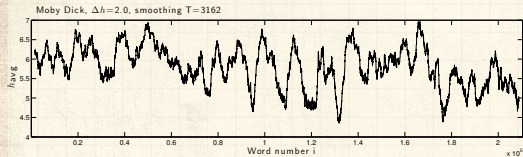
Essence

Memory &
 Turbulence

Emotional Arcs

Moving ahead

References



Storytellers

Stories

Power

Taxonomy

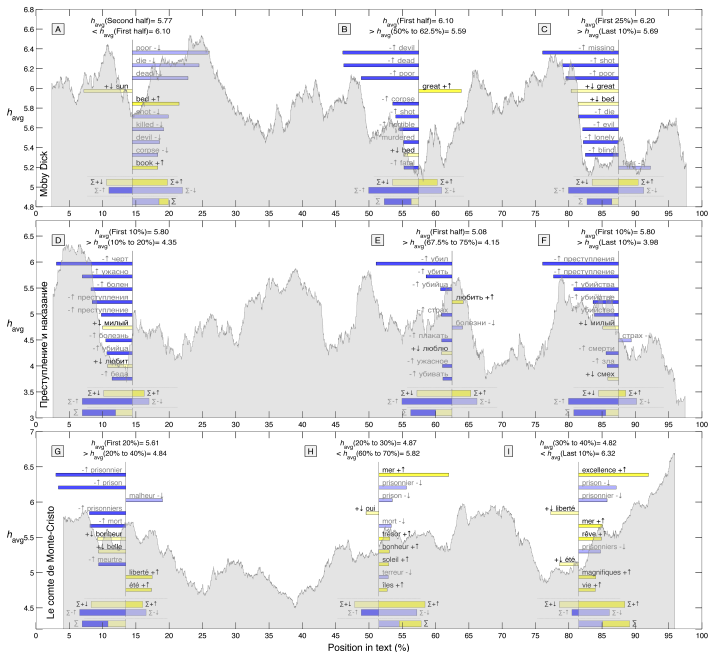
Essence

Memory &
 Turbulence

Emotional Arcs

Moving ahead

References



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

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

by Mary Shelley

Search Gutenberg Corpus

by Title ▾

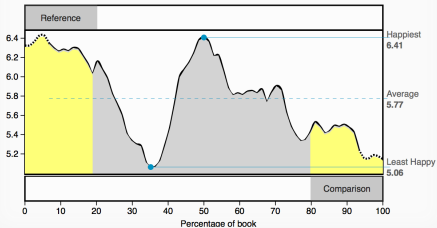
Classics ▾

Harry Potter ▾

Random

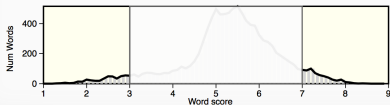
Book happiness time series:

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:

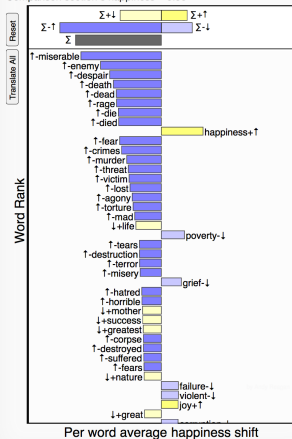


Word Shift:

Why comparison section is less happy than the reference one

Reference sections's happiness = 6.31

Comparison section's happiness = 5.35



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

Harry Potter (all books together)

by J.K. Rowling

Search Gutenberg Corpus

by Title ▾

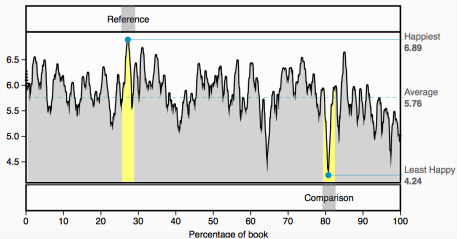
Classics ▾

Harry Potter ▾

Random

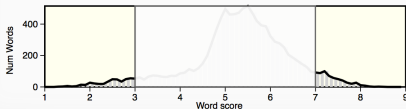
Book happiness time series:

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:

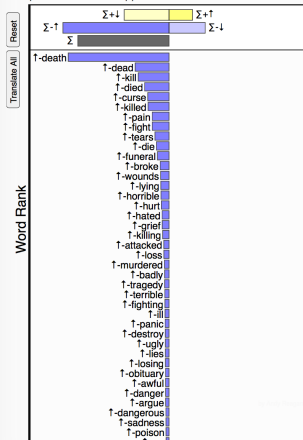


Word Shift:

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

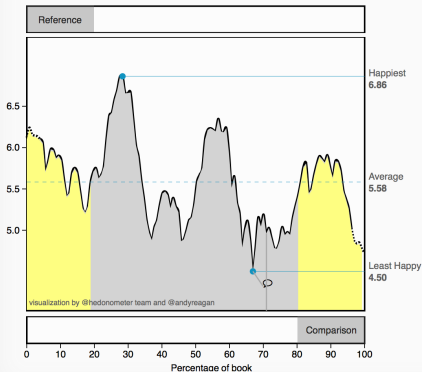
Classics ▾

Team Picks ▾

Random

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 "Eenie, meeny, 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.

Storytellers

Stories

Power

Taxonomy

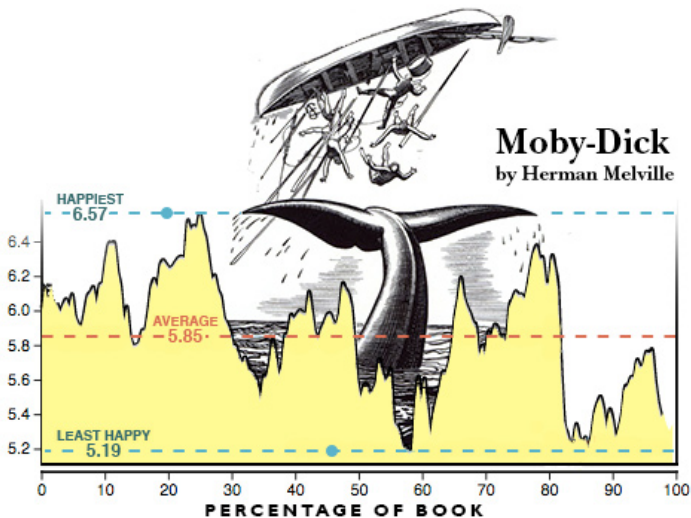
Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



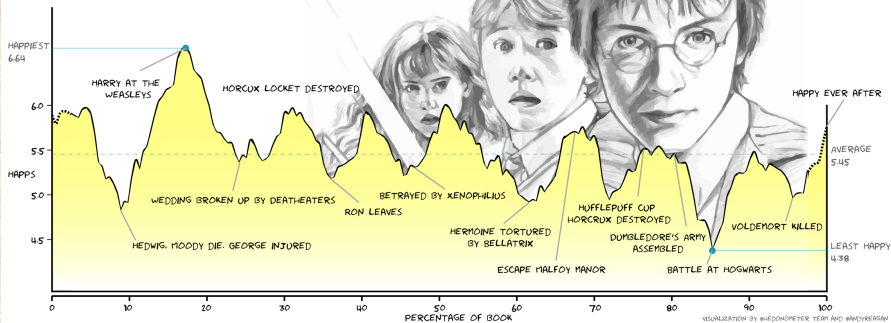
Moby-Dick illustration by Rockwell Kent, 1930



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


Harry Potter and the Deathly Hallows

by J.K. Rowling



VISUALIZATION BY @HEDONMETER TEAM AND @AMYBERGAIN
ILLUSTRATION BY NRECH (STRAY CATS @OZYNE.COM)



"The emotional arcs of stories are dominated by six basic shapes" 

Reagan, Mitchell, Danforth, Dodds, and Dodds.

EPJ Data Science, **5**, 31, 2016. ^[18]



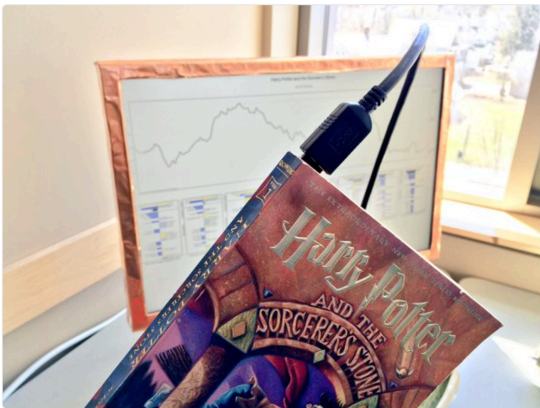
UVM

@uvmvermont



Following

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



RETWEETS

8

LIKES

14



9:30 AM - 28 Apr 2016

PoCS, Vol. 1
What's the Story?
79 of 94

Storytellers

Stories

Power

Taxonomy

Essence

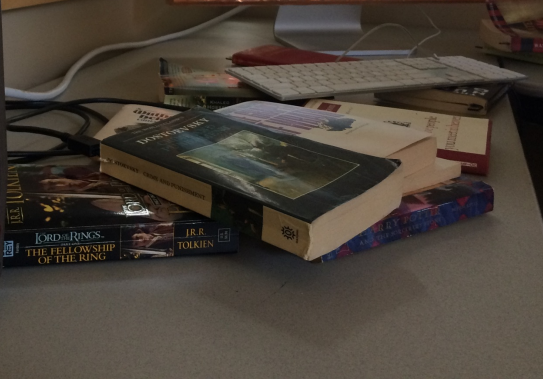
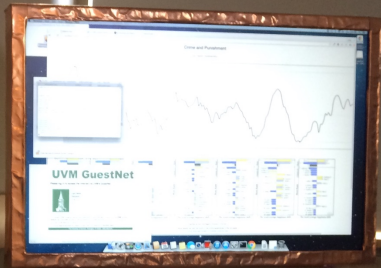
Memory &
Turbulence

Emotional Arcs

Moving ahead

References





Harry Potter and the Chamber of Plot Devices:

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



Another Great Moment in being Andy Reagan:

PoCS, Vol. 1
What's the Story?
83 of 94

Storytellers

Stories

Power

Taxonomy

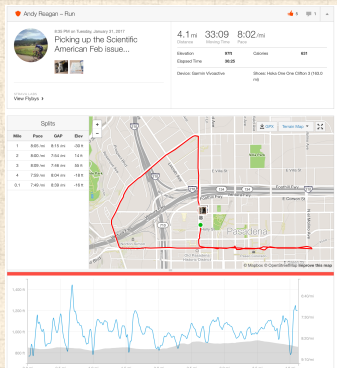
Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

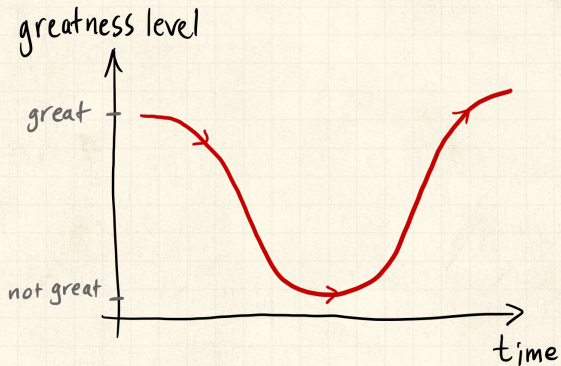
References




| 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 | |
| -SV 1 | | 442 | 25.3% | 337.5 | 636.0 | 913464 | |
| SV 2 | | 230 | 13.2% | 314.0 | 630.3 | 1058916 | |
| -SV 2 | | 169 | 9.7% | 296.0 | 569.1 | 780365 | |
| SV 3 | | 104 | 6.0% | 298.0 | 874.5 | 7826797 | |
| -SV 3 | | 108 | 6.2% | 298.0 | 748.7 | 2517822 | |
| SV 4 | | 108 | 6.2% | 316.0 | 848.8 | 2763060 | |
| -SV 4 | | 50 | 2.9% | 292.0 | 770.7 | 1546202 | |
| SV 5 | | 48 | 2.7% | 280.0 | 421.7 | 182443 | |
| -SV 5 | | 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 4* (both polarities of modes 3 and 4) exhibit a higher average number of downloads and more variance than the rest.





 Used by Reagan and Bush in 1980.

Storytellers

Stories

Power

Taxonomy

Essence

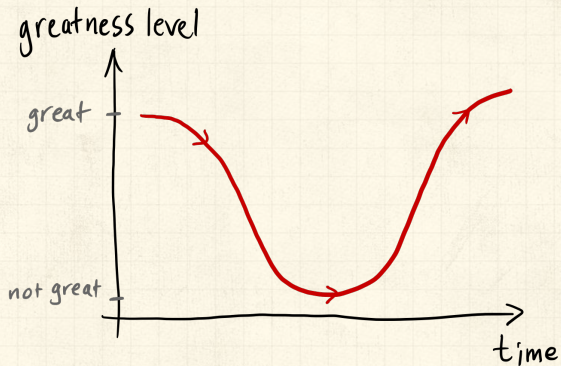
Memory &
Turbulence


Emotional Arcs


Moving ahead

References






 Used by Reagan and Bush in 1980.

 Template used by many others including Bill Clinton.





A Science of Stories?

Stories are everything


 Probably, yes.


We talk about and study stories everywhere but ...


 We don't have a central place academically.

 Departments of: English, political science, folklore, cognitive sciences, arts, musicology, communication, ...

Organizing structure going forward:

 PLOS One foundational paper and collection³

 Annual meeting?

 Create a new journal: No.

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



³the journal formerly known as PLoS ONE

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/suported 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?
- All separately powerful: Words, Music/Sound, Visual, ... interplay?
- Outcome: How to communicate scientific findings powerfully.




References I

- [1] J. Abello, P. Broadwell, and T. R. Tangherlini.
Computational folkloristics.
Communications of the ACM, 55:60–70, 2012.
[pdf](#) 
- [2] P. E. Auerswald.
The Code Economy: A Forty-Thousand Year
History.
Oxford University Press, 2017.
- [3] C. Booker.
The Seven Basic Plots: Why We Tell Stories.
Continuum, 2005.
- [4] B. Boyd.
On the Origin of Stories: Evolution, Cognition, and
Fiction.
Belknap Press, 2010.



References II

- [5] J. Campbell.
The Hero with a Thousand Faces.
New World Lbrary, third edition, 2008.
- [6] J. Campbell and B. Moyers.
The Power of Myth.
Anchor, 1991. [pdf](#) 
- [7] E. Cheng.
How to bake pi: An edible exploration of the mathematics of mathematics.
Basic Books, 2015.
- [8] B. Christian and T. Griffiths.
Algorithms to Live By.
Macmillan, 2016.

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence


Emotional Arcs

Moving ahead

References



References III

- [9] A. DeGraff.
Plotted: A Literary Atlas.
Pulp/Zest Book, 2015.
- [10] M. Erwig.
Once Upon an Algorithm.
MIT Press, 2017.
- [11] J. Gottschall.
The Storytelling Animal: How Stories Make Us Human.
Mariner Books, 2013.
- [12] F. Heider and M. Simmel.
An experimental study in apparent behavior.
The American Journal of Psychology, 57:243–159,
1944. [pdf](#) 



References IV

PoCS, Vol. 1
What's the Story?
92 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References

- [13] D. P. Kiley, A. J. Reagan, L. Mitchell, C. M. Danforth, and P. S. Dodds.

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

Physical Review E, 93, 2016.

Available online at

<http://arxiv.org/abs/1507.03886.pdf>

- [14] E. Kim.

Entertaining beliefs in economic mobility.

[https://www.dropbox.com/s/i9pm6wd51c3fzbh/](https://www.dropbox.com/s/i9pm6wd51c3fzbh/Kim_WS.pdf?dl=0)

[Kim_WS.pdf?dl=0](https://www.dropbox.com/s/i9pm6wd51c3fzbh/Kim_WS.pdf?dl=0), 2018.



References V

- [15] G. King, J. Pan, and M. E. Roberts.
How the Chinese government fabricates social
media posts for strategic distraction, not engaged
argument.

[American Political Science Review](#), 2017
Forthcoming. pdf 

- [16] W. H. Press, S. A. Teukolsky, W. T. Vetterling, and
B. P. Flannery.

[Numerical Recipes in C](#).
Cambridge University Press, second edition, 1992.

- [17] M. Puchner.

[The Written World: How Literature Shaped
Civilization](#).
Random, 2017.



References VI

- [18] A. J. Reagan, L. Mitchell, C. M. Danforth, and P. S. Dodds.

The emotional arcs of stories are dominated by six basic shapes.

[EPJ Data Science](#), 5:31, 2016.


Available at <http://arxiv.org/abs/1606.06820>.

pdf 

- [19] R. J. Shiller.

Narrative economics.

[American Economic Review](#), 107(4):967–1004,

2017. pdf 

- [20] B. Snyder.

[Save the Cat!](#)

Michael Wiese Productions, 2005.

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References



References VII

PoCS, Vol. 1
What's the Story?
95 of 94

Storytellers

Stories

Power

Taxonomy

Essence

Memory &
Turbulence

Emotional Arcs

Moving ahead

References

[21] J.J. Tehrani.

The phylogeny of Little Red Riding Hood.

[PLoS ONE, 8:e78871, 2013. pdf](#) 

