Emotional and meaning arcs of stories

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The PoCSverse Meaning arcs



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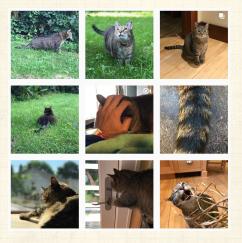
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Outline

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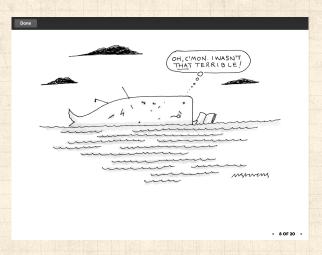
Kurt Vonnegut on the shapes of stories



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

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Ron Swanson on metaphors



A "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."



Stories



Aside: From a 2013 Believer Magazine 2 interview with Maurice Sendak 2:

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.



Stories

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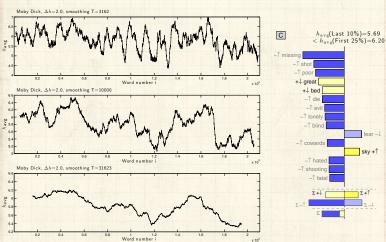
Sendak named his dog Herman.



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



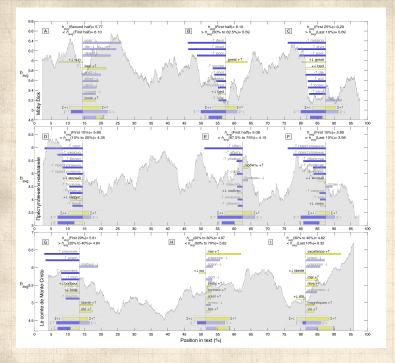
The emotional shapes of stories—Moby Dick:



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

books:

Frankenstein; Or the Modern Prometheus (wiki)

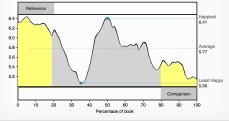
Search Gutenberg Corpus

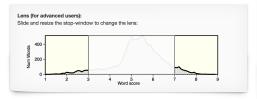
by Title → Classics - Harry Potter ▼

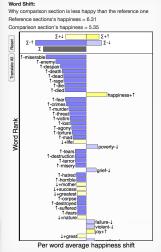
Random

by Mary Shelley

Book happiness time series: Explore the work's emotional dynamics by sliding and resizing the reference and comparison sections. Reference Happiest 6.41 6.2 6.0 -Average 5.8 -5.77 5.6 -







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

books:

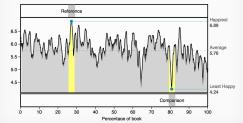
Harry Potter (all books together)

by J.K. Rowling



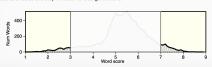
Book happiness time series:

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



Lens (for advanced users):

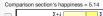
Slide and resize the stop-window to change the lens:

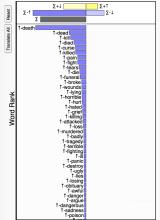


Word Shift:

Why comparison section is less happy than the reference one Reference sections's happiness = 6.13

neterence sections s napplitiess = 0.13



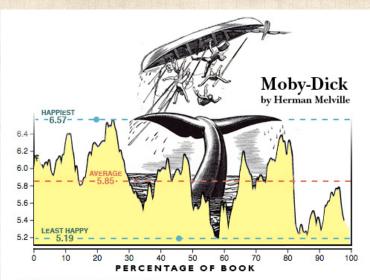


Per word average happiness shift

Online, interactive Emotional Shapes of Stories for 1,000+

movie scripts:

ulp Fiction	Search Mo	vies	Classics -	Team Picks ▼	Rand		
ected by Quentin Tarantino							
fovie happiness time series: xplore the work's emotional dynamics by sliding and resizing the refere omparison sections.	nce and	Movie script: Portion of script scored for each point in t	imeseries.				
Reference		Zed takes the chair, sits i then lowers into it. Maynar then backs away.					
6.5	Happiest 6.86	MAYNI (to The Gimp Down!					
		The Gimp gets on its knees. Maynard hangs back while Zed appraises the two men.					
	Average 5.58	Who's first?	ARD				
V V MM ~		I ain't fer sure	yet.				
1	Least Happy 4.50	Then with his little finger miney, moe " just his mo finger going back and forth	outh mouthing	the words and his			
visualization by @hedonometer team and @andyreagan	4.50	Butch are Marsellus are ter	rified.				
Comparison		Maynard looks back and fort					
0 10 20 30 40 50 60 70 80 90 1 Percentage of book	00 L	The Gimps's eyes qo from or	me to the othe	r inside the mas)			



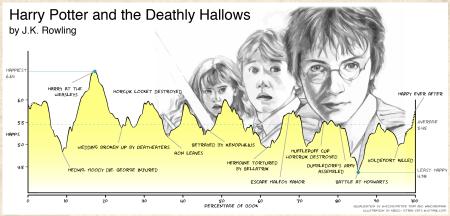
Moby-Dick illustration by Rockwell Kent, 1930

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

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

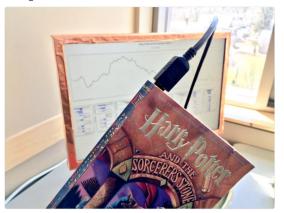
Reagan, Mitchell, Danforth, and Dodds. EPJ Data Science, 5, 31, 2016. [1]





Following

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



RETWEETS LIKES 14









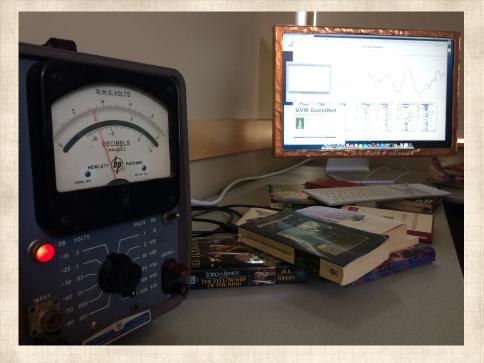




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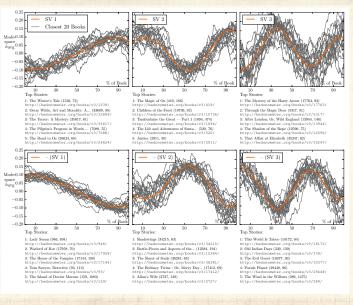
Harry Potter and the Trove of Plot Devices



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References





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

The intro to Veep E



Icarus (and then it's ups and downs over and over)

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The story of Jermaine and Bret



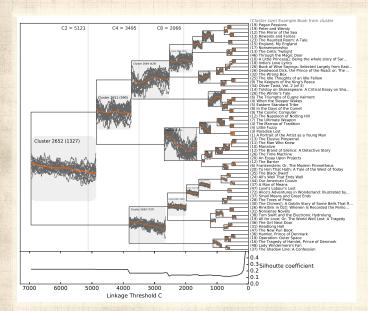
Rags-to-rags. Full scene here .

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Emotional arcs for 1748 books from gutenberg.org



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References

Stories with a few ups and downs most downloaded:

Mode	Mode Arc	N_m	N_m/N	DL Median \blacktriangledown	DL Mean ∇	DL Variance	Download Distribution
SV 1		263	15.1%	295.0	644.3	2207201	The state of the s
-SV 1		442	25.3%	337.5	636.0	913464	rlmiman
SV 2	\sim	230	13.2%	314.0	630.3	1058916	
-SV 2		169	9.7%	296.0	569.1	780365	Min-
SV 3	~	104	6.0%	298.0	874.5	7826797	Million
-SV 3	\sim	108	6.2%	298.0	748.7	2517822	Millianian
SV 4	\sim	108	6.2%	316.0	848.8	2763060	
-SV 4	~~	50	2.9%	292.0	770.7	1546202	dhina
SV 5	$\sim\sim$	48	2.7%	280.0	421.7	182443	
-SV 5	$\sim\sim$	48	2.7%	263.5	462.0	211259	1

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.



Another Great Moment in being Andy Reagan:

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"So, in writing, there are six basic plots, and their sequels and derivative franchises."

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References I

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References

[1] 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 https://arxiv.org/abs/1606.06820. pdf

