

Superiority Theories of Humour



- Aristotle's Comedy
- Hobbes' Leviathan
- Bergson's Rigidity



"Sudden glory is the passion which maketh these grimaces, laughter, and is caused either by some sudden act of their own, that pleaseth them, or by the appreciation of some deformed thing in another, by comparison whereof they suddenly appland themselves." (Thomas Hobbes, Leviathan, 1651)

Superiority Humour: Henri Bergson's "Rigidity"



- Laughter: an essay on the meaning of the comic (1900)
- We laugh every time a person gives us the impression of being a thing.
- Theory of Mind: it is easier to laugh in a group. Comedy requires complicity.

Rigid? Moi?

 We laugh at bodies more than minds, at repetition, the unthinking, at malfunction.

Relief & Release Theories of Humour



- Aristotle's Poetics Humour as catharsis
- Lord Shaftesbury
 The freedom of wit (1709)
- Sigmund Freud
 (Wit & the Unconscious, 1936)
- Norm + Violation (N+V)
 (Thomas Veatch, 1998)
- Benign Violation (McGraw & Warren, 2010)

Relief via the expression of socially-transgressive thoughts.





"Marriage isn't a word ...

... it's a sentence."

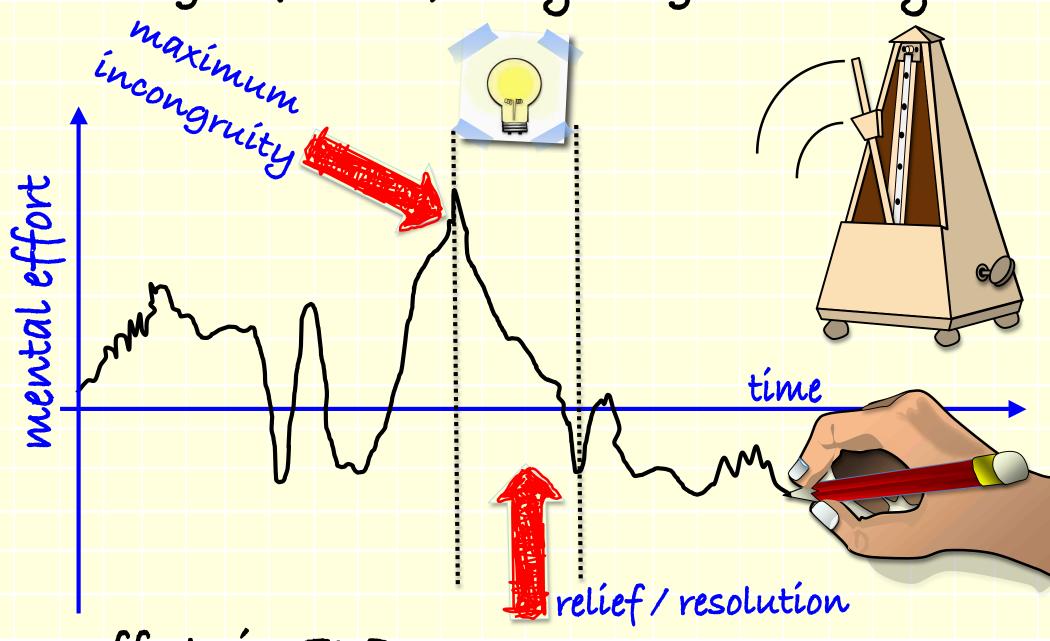
Incongruity-Resolution Theories of Humour



- Beatty, Pascal,
 Kant, Schopenhauer
- Script Switching (Victor Raskin, 1984)
- Blending/frame Shifting (Seana Coulson, 2000)
- Bisociation (Arthur Koestler, 1964)
- Two-stage process model (Jerry Suls, 1972)

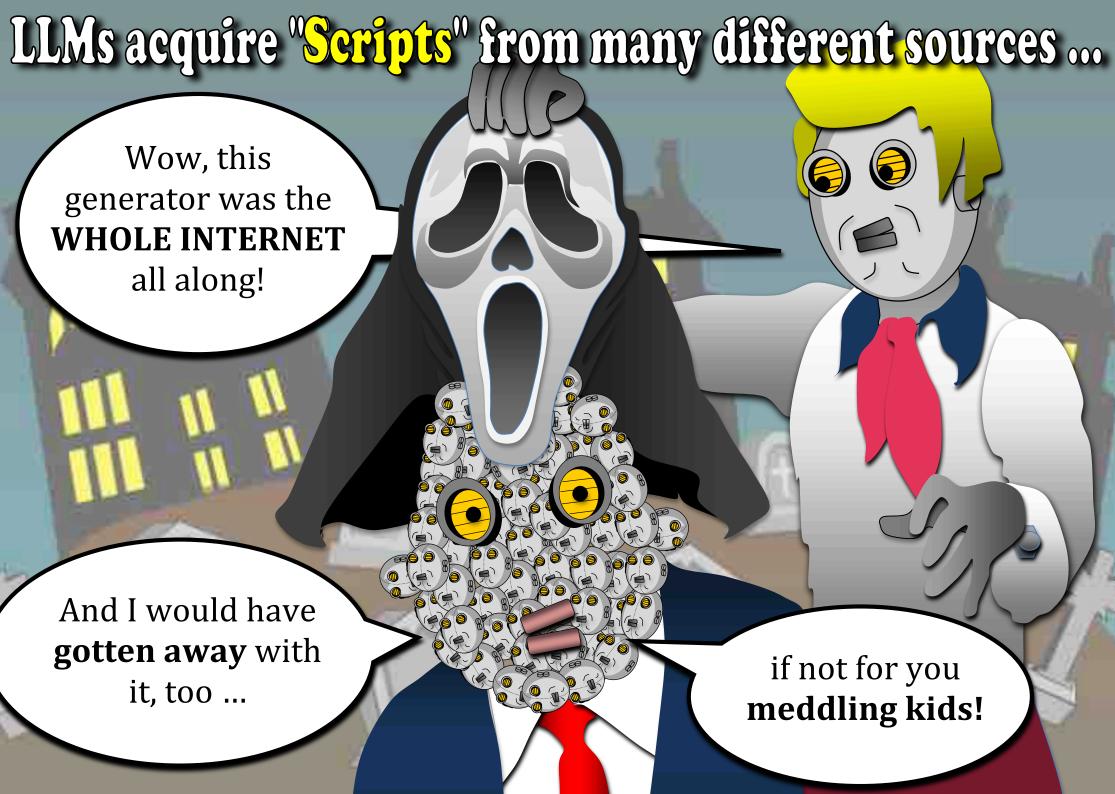


Timing is (almost) everything in comedy...

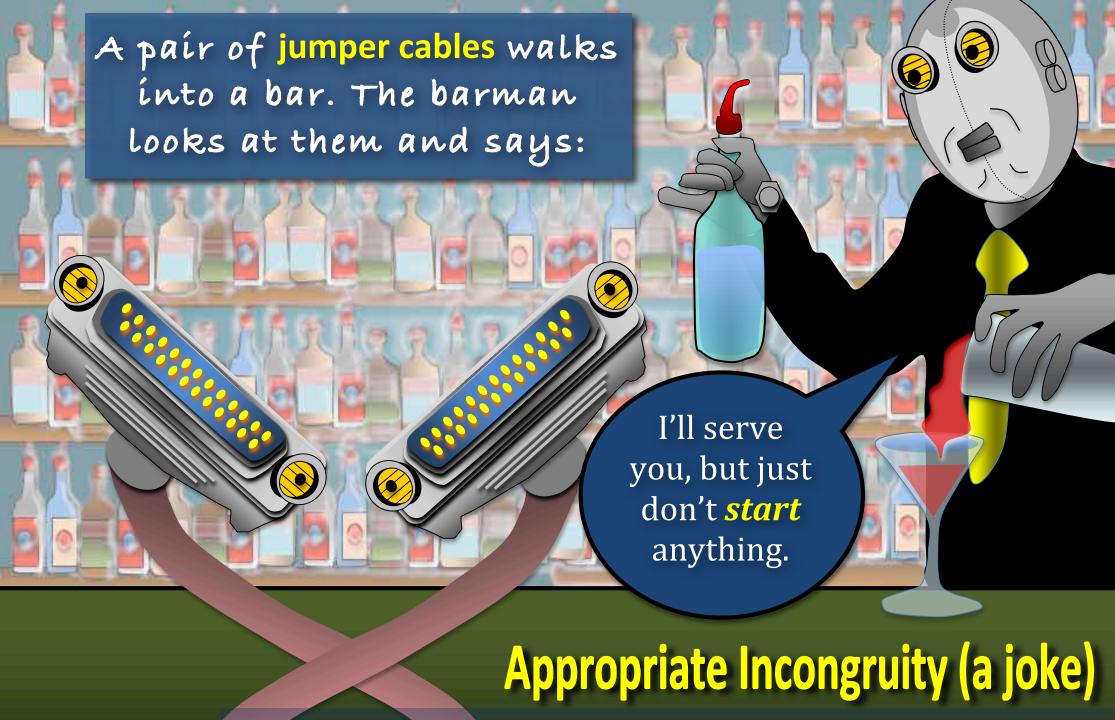


N400 effects in ERPs



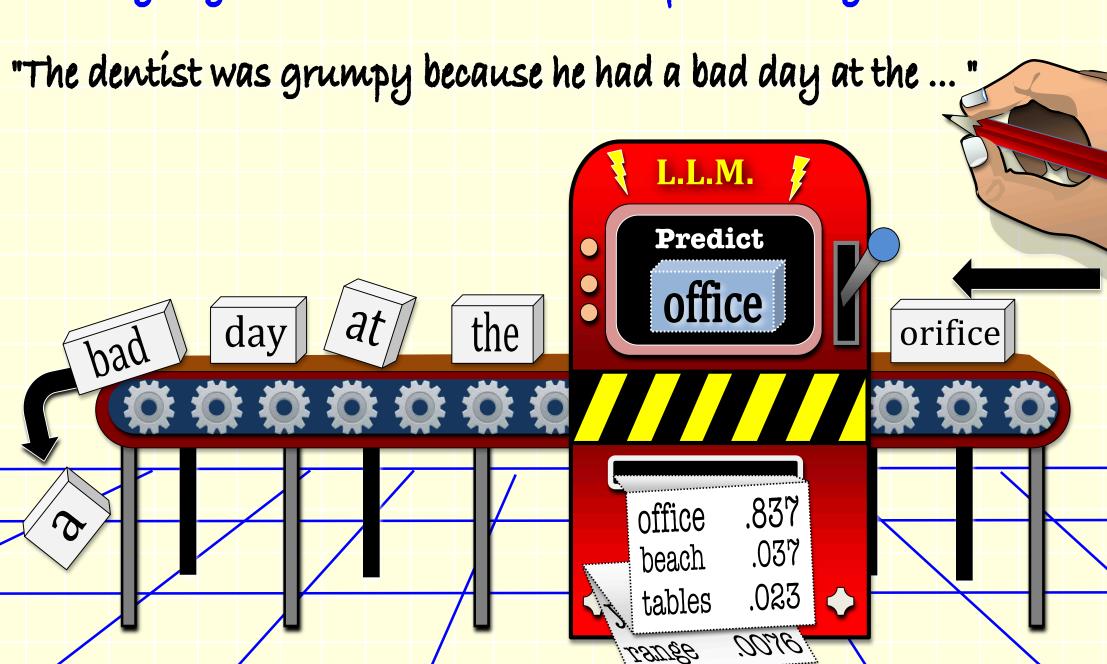






(see also "Optimal Innovation" from Rachel Giora & colleagues)

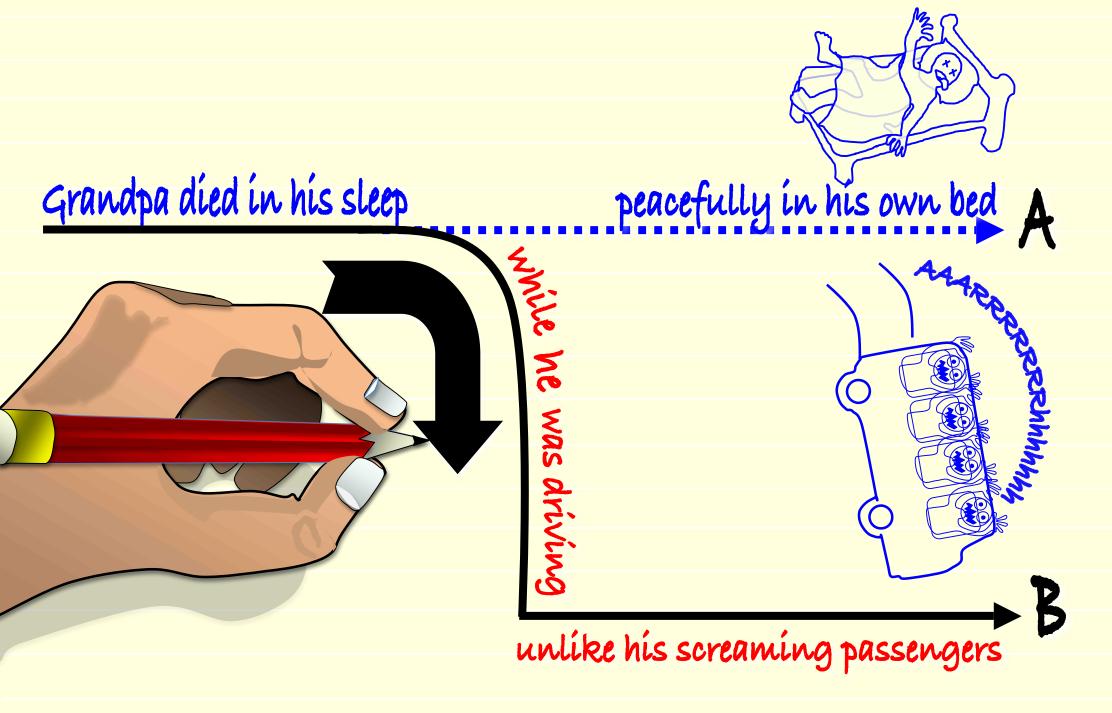
A Language Model is a rich source of these linguistic norms



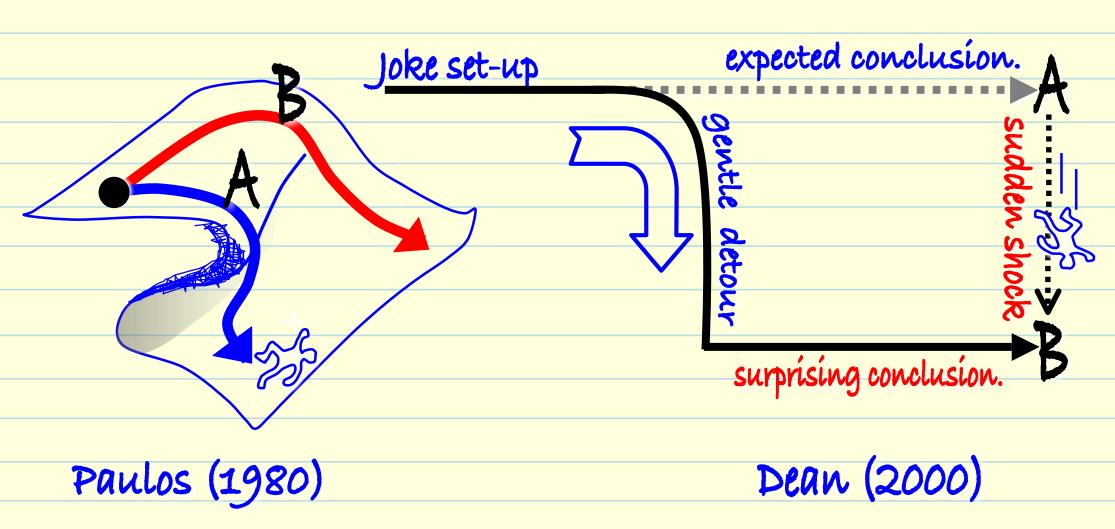
Jokes (& creative surprises) play with our expectations ...

Grandpa died peacefully in his sleep (in his own bed) (obvious interpretation)

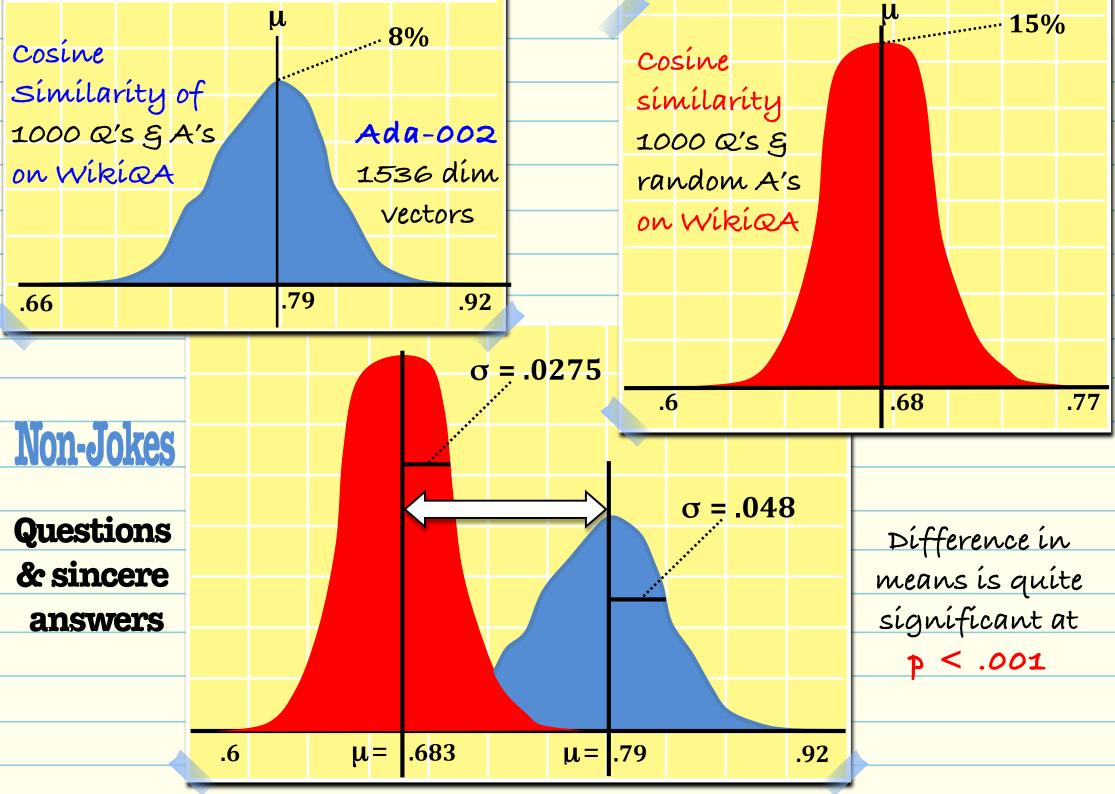
sample joke: An oldie (but a goodie)

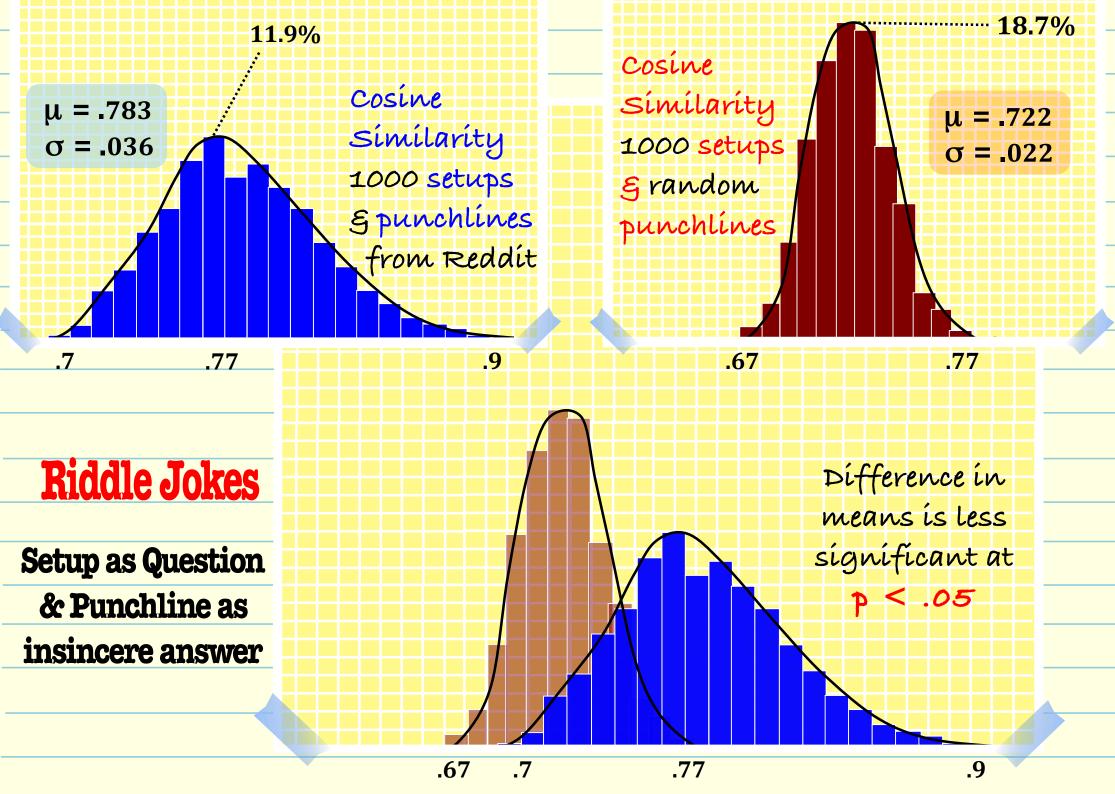


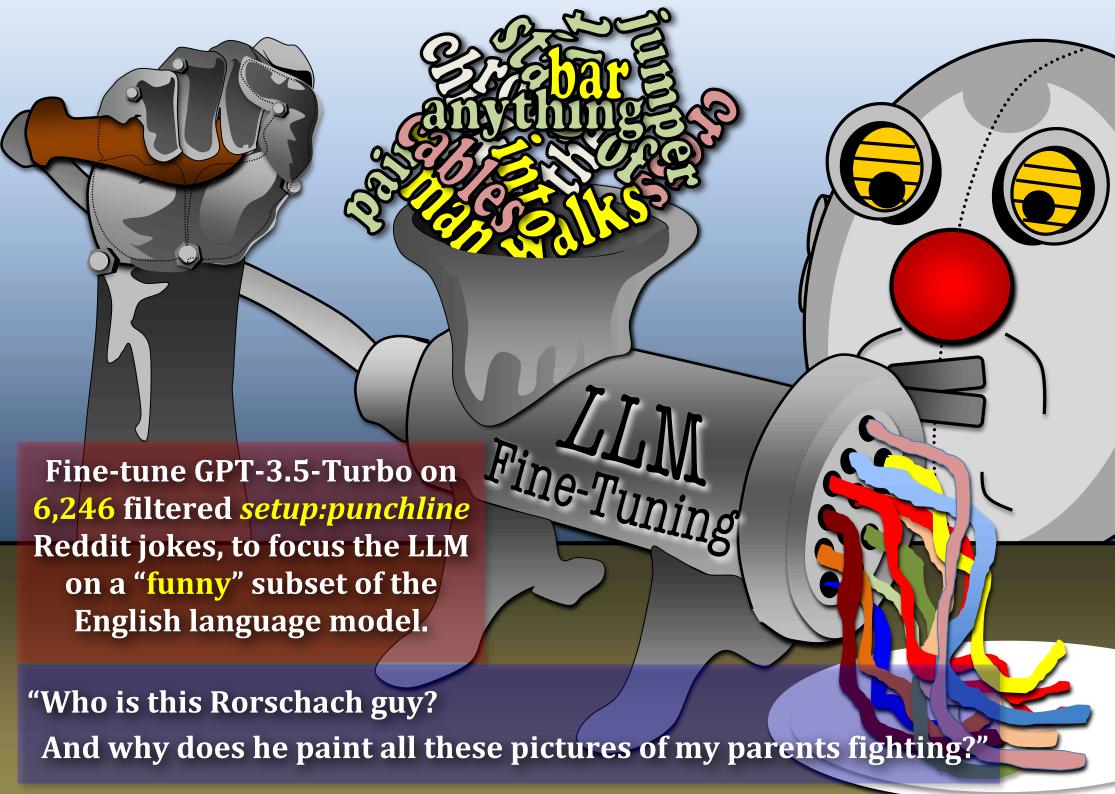
Dean, Greg. Step-by-Step to Stand-up Comedy. Heinemann, 2000



How do we quantify the gap between interpretations A & B?







setup: Why did the customer service representative cross the road?

punchline: To talk to his manager.



setup: How do you know if you've found a bad Elvis impersonator?

punchline: Break his legs and see if he sings.



31.6%

setup: How does Darth Vader like his toast?

punchline: On the dark side.



setup: Why did the basketball player refuse to eat seafood?

punchline: Because he was afraid of the net.



setup: What did the robber say to the convenience store cashier?

punchline: Give me all the money! I'm robbing the store!

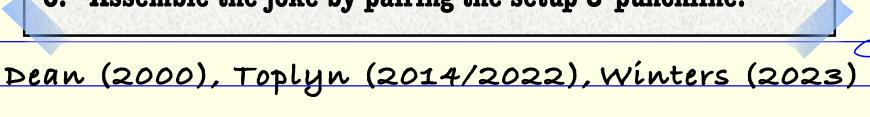


Chain of Thought (Cor)

Think like a comedian ...

You are a professional joke writer for a comedian. To write a joke about a topic X, follow these steps:

- 1. Identify three offbeat associations of X we all know.
- 2. Identify a surprising link between each association in step 1 and X.
- 3. Turn the links in step 2 into joke setups, without revealing the surprise.
- 4. Turn the surprising aspect of each link in step 3 into a snappy punchline.
- 5. Select the least predictable punchline from step 4.
- 6. Assemble the joke by pairing the setup & punchline.



x = awkward first dates

Mental gymnastics

Crickets chirping

Solving a Rubik's cube

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- 5. Select the least predictable punchline in step 4.
- 6. Assemble a joke by pairing setup & punchline.

"Turning a handshake into a mental gymnastics routine should be an Olympic sport."

uncomfortable silences

Picking a date spot

overthinking greetings

"Ever notice how overthinking greetings on a first date is like preparing for a diplomatic summit?"

setup: I was at a funeral when a telemarketer called me. 6.5%

punchline: Coffins for the whole family.

setup: Selfie culture is getting out of hand.

punchline: Avocado toast: the new traffic jam.



setup: Did you hear about the burger that got a speeding ticket?

punchline: It was fast food.

setup: My coworkers are so lazy ...

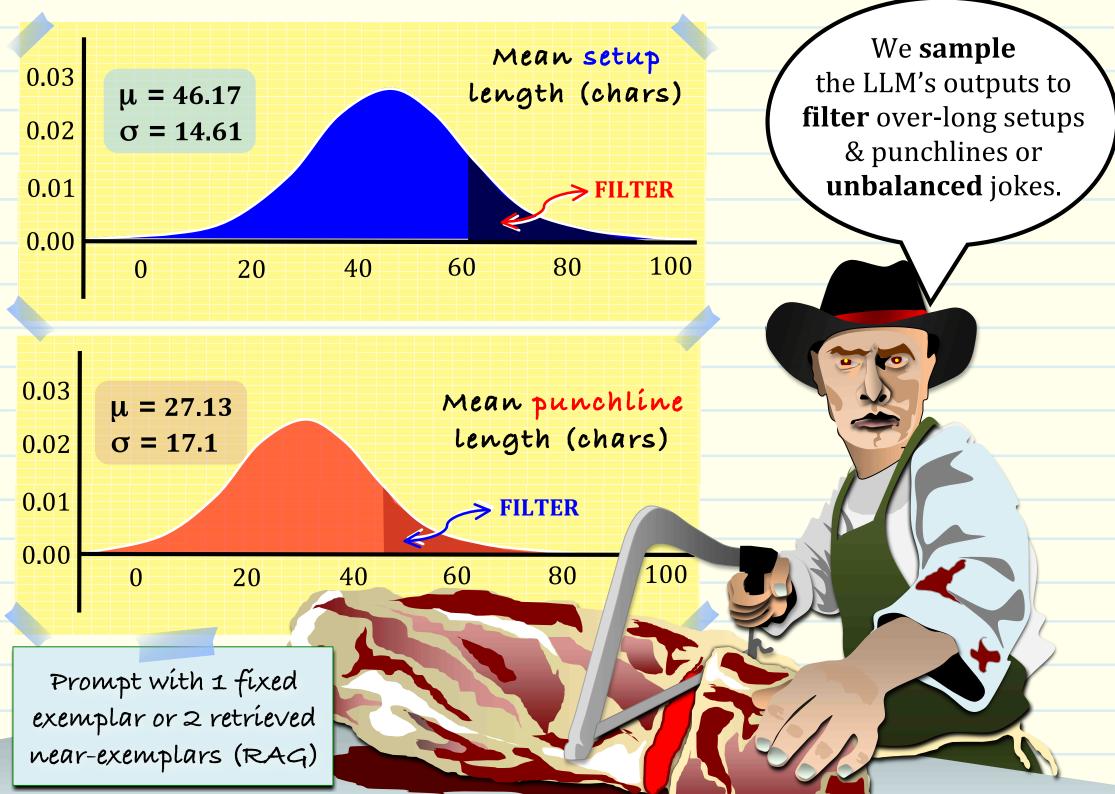
punchline: they're always on break records.



setup: I had a terrible room mate.

punchline: But the rent was cheap.





setup: What do you call a group of conspiracy theorists? 19.6%

punchline: A cover-up band.

setup: How do you make a bad driver nervous?

punchline: Give him a steering wheel.



setup: What did the ocean say to the shore?

punchline: Nothing. It just waved.

11.3% 3.1% RAG×2

setup: Why did the soda go to the doctor?

punchline: Because it had too many pop-ups.



setup: Why did the subway train smell bad?

punchline: Because it had too many commuters.



		NewJokes		oldjokes		Incoherent		Sincere	
GPT-4	Approach LLM	3.5T	4T	3.5T	4T	3.5T	4T	3.5T	4T
Smash!	1. One-shot prímíng	3.9%	14%	1.5%	3.75 %	2.2%	4.4%	4.1%	10.3%
	2. Sampling	19.3%	22.6%	11.3%	15.1%	2%	4.6%	2.8%	5.9 %
	з. Fíne-tuníng	11.1%	N/A	10.6%	N/A	27.3%	N/A	19.4%	N/A
	4. Sampling + RAG	19.6%	15.1%	3.1%	30.9 %	4.8%	3.6%	10.3%	1.4%
	5. Chain of Thought	6.5%	7.2%	0%	0%	5 %	1.4%	4.6%	0%
	Does LLM Size Matter?								

We obtain mixed results when we use GPT-4 Turbo instead of the smaller GPT-3.5 Turbo.