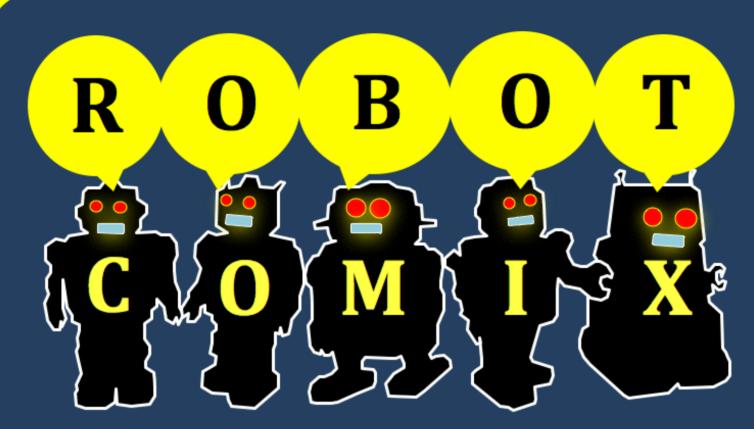
Do Androids Dream of Eclectic Tweets?

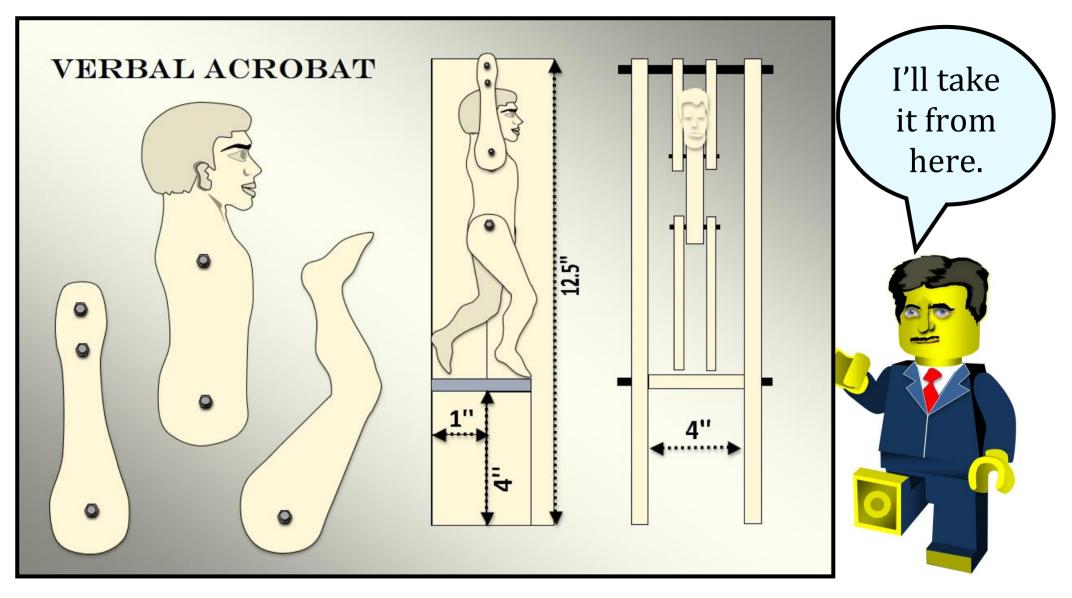
Metaphor Magnet © Tony Veale 2014 Tony.Veale@gmail.com

Anatomy of a Creative Twitterbot



Web Comics That Transform Our Understanding of Computers and Creativity

For more comix on creativity: RobotComix.com



We are going to explore the mechanics of a verbal acrobat: a creative, metaphorgenerating *Twitterbot*. But first we need to ask what makes *language* creative. We need to ask a critic who pulls no punches: step up **Mr. George Orwell ...**

George Orwell's Politics and the English Language

Most people who bother with the matter at all would admit that the English language is *in a bad way*.

It becomes *ugly* and *inaccurate* because our thoughts are foolish, but the *slovenliness* of our language makes it easier for us to have foolish thoughts. A *scrupulous writer*, in every sentence that he writes, will ask himself at least four questions, thus: What am I trying to *say*? What *words* will express it? What *image* or *idiom* will make it clearer? Is this *image fresh enough* to have an effect?

PUNS

LOAN

WORDS

ENGLISH WORDS

EMPTY

PREFIXES

TERMS

SLANG

FRESH

METAPHORS

IDIOMS

DYING

METAPHORS

But you are not obliged to go to all this trouble.

You can shirk it by simply throwing your mind open and letting the *ready-made phrases* come *crowding in*.

> They will construct your sentences for you–even think your thoughts for you.

This invasion of one's mind by *ready-made phrases* can only be prevented if one is constantly on guard against them, and every such phrase *anesthetizes* a portion of one's brain.



Marcel Duchamp's "Fountain" (1917): The Art World's Most Famous Ready-Made Artwork I happen to be a famously *creative* readymade!

Do you

mind?

Sigh. Prose consists less and less of WORDS chosen for their meaning, and more and more of PHRASES tacked together like the sections of a prefabricated hen-house.

Moreover

There is a huge dump* of **worn-out metaphors** which have lost all evocative power and are merely used because they save people the trouble of inventing phrases for themselves.



*Though linguist **Geoff Pullum** calls Orwell's polemic "stupid and dishonest", a "load of Orwellian cobblers"

There is a long list of **fly-blown** metaphors which could be **got rid of** if enough people would interest themselves in the job. *Sigh* It is better to **put off using words** as long as possible and get one's meaning as clear as one can through pictures or sensations.

This [*filtering*] effort of the mind cuts out all stale or mixed images, all pre-fabricated phrases, needless repetitions, and humbug and vagueness generally.

When one watches some tired hack *mechanically repeating* the familiar phrases, one often has a curious feeling that one is not watching a *live human being* but some kind of *dummy*.

Hey!

There is a new sheriff in town ...

A speaker who uses that kind of phraseology has gone some distance towards *turning himself into a machine*.

The appropriate noises are coming out of his larynx, but his brain is not involved as it would be if he were *choosing his words for himself*.



The *worst* thing one can do with words is to *surrender* them.

What is above all needed is to let the *meaning choose the word*, and not the other way about.

ENGSOC

If you simplify your English, you are freed from the worst follies of *orthodoxy*.

SSO

Never use a metaphor, simile or other figure of speech which you are used to seeing in print.

GS

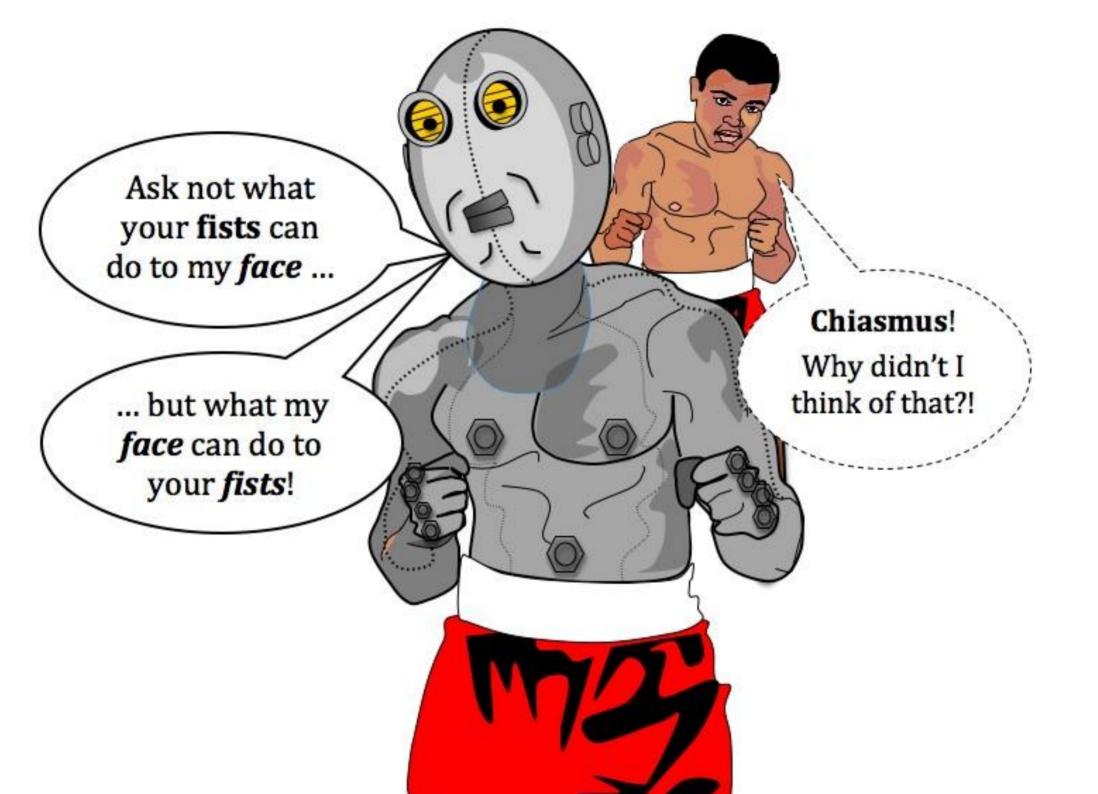
Costly thy habit as thy purse can buy, But not expressed in fancy —rich, not gaudy, **For the apparel oft proclaims the man.**

Readers tend to find a text more profound, and dig deeper to give it a meaning **IF** it has a clearly poetic form. Psychologists call this **The Keats Heuristic**.

The Keats Heuristic at work: "*If the glove don't fit you must acquit*"

Short, catchy texts can have a profound effect on how we perceive the "*truth*".

See, it doesn't fit OOPS!



<u>A scene from the film **Mystery Men**</u>: Our ragtag "super"-heroes are preparing their homemade costumes for the big showdown when **The Sphinx**'s over-use of Chiasmus begins to grate on his team-mate **Mr. Furious** ...

The Sphinx:He who questions training, only trains himself in asking
questions. [...] Work well on your new costumes my friends,
for when you care for what is outside, what is inside cares for
you. [...] To summon your power for the conflict to come, you
must first have power over that which conflicts you.

<u>Mr. Furious</u>: Okay, am I the only one who finds these sayings just a little bit formulaic? "*If you want to push something down, you have to pull it up. If you want to go left, you have to go right.*" It's ...

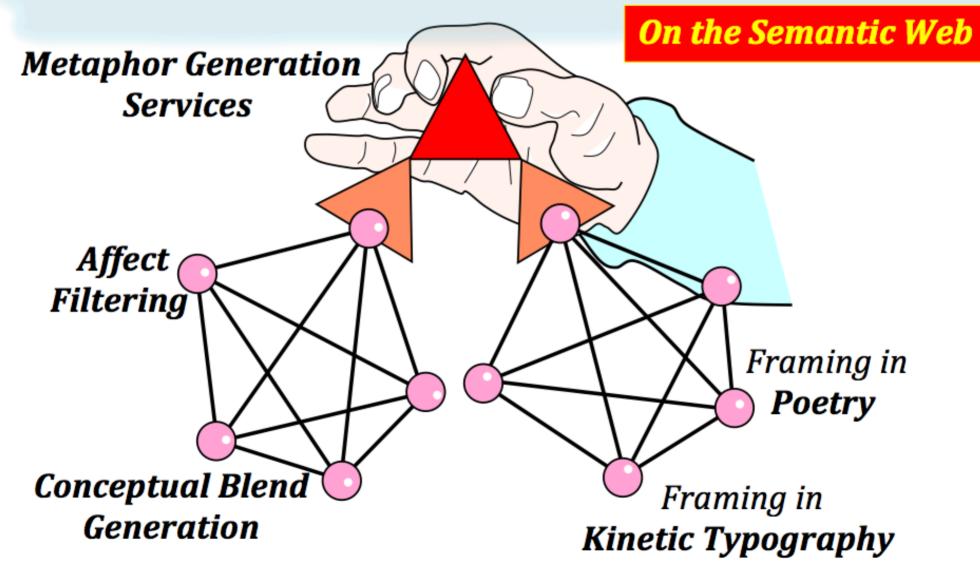
<u>**The Sphinx</u>**: Your temper is very quick, my friend. But until you learn to master your rage ...</u>

<u>Mr. Furious</u>: ... your rage will become your master? That's what you were going to say. Right? Right?

<u>The Sphinx</u>: um ... Not necessarily.

A creative bot *must not rely then on a single rhetorical strategy: it should be able to draw on a diversity of forms and strategies. In other words:*





A (Web-) Service-Oriented Architecture is "an architectural model that aims to enhance the efficiency, agility, and productivity of an enterprise by positioning services as the primary means through which solution logic is represented"

Innovation

is *served*,

Sir.

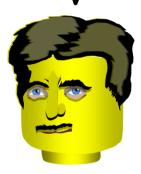
Erl (2008)

New Metaphor Services should be discoverable, autonomous and widely reusable, and should be flexible enough to compose in groups, while remaining loosely coupled to others. Services should also maintain minimal state information and use abstraction to hide the complexity of their inner workings and data.

So what if a diverse Do you want assortment of fries with that metaphors could be metaphor? created on demand for any given topic? A Web Service called Metaphor Magnet can be used to *commoditize* creative metaphors for use on Twitter via bots.

Check out: Afflatus.UCD.ie for more details of this and other services.

This bot by Tony Veale uses his **Metaphor Magnet** Web-service to tweet a new hard-boiled metaphor every hour







MetaphorIsMyBusiness @MetaphorMagnet

Misfit. noun. A weird cocktail of 5 parts quirkdeveloping genius to 4 parts shortcomingstricken wuss. #MisfitOrWuss #MisfitOrGenius

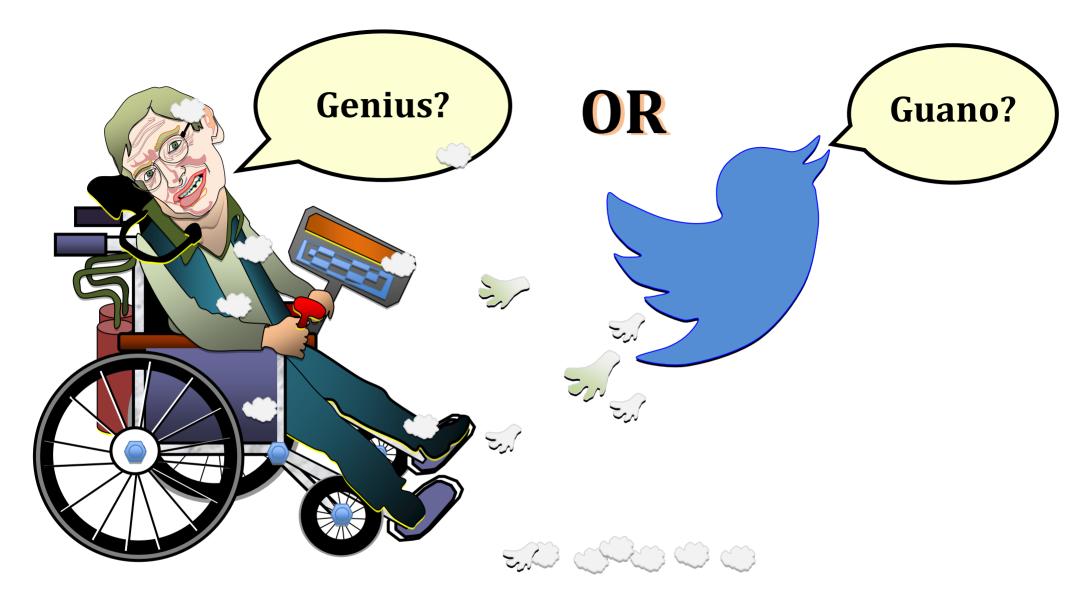


ls Mv

MetaphorIsMyBusiness @MetaphorMagnet

siness

Abuse leads to the crime that causes suffering. Justice provides the punishment that inflicts suffering. Take your pick. #JusticeOrAbuse?

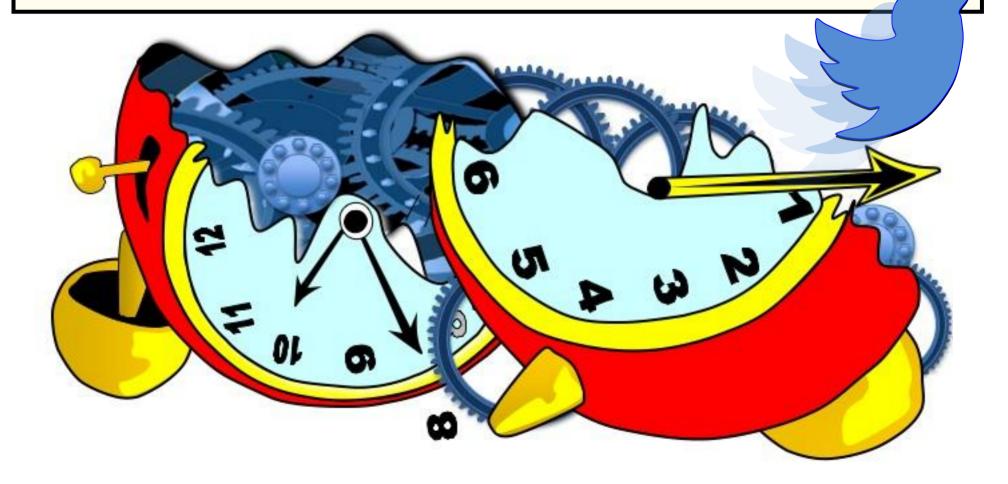


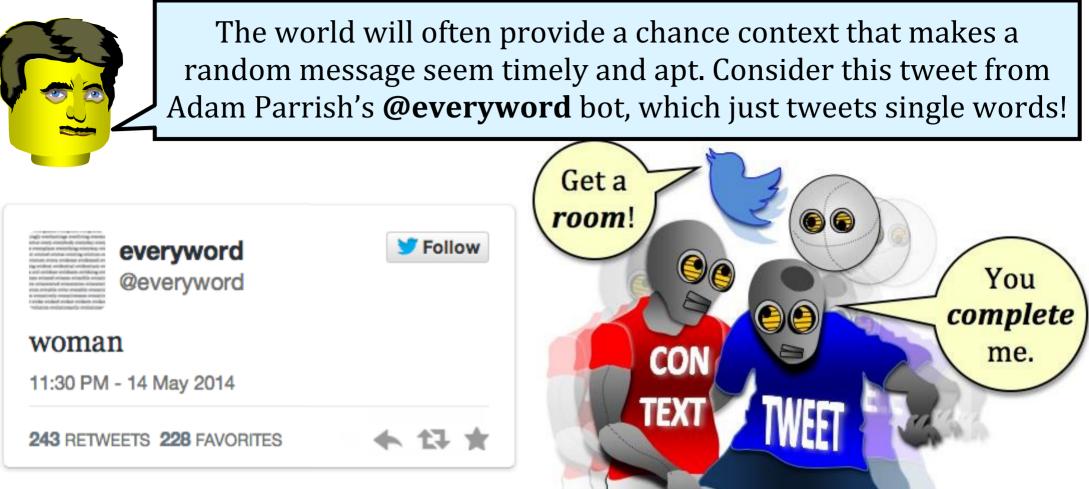
Not every automated metaphor / tweet will hit its target. Our bot will often shoot **blanks**. So how do we ensure that the bot is mostly generating metaphors that it itself *understands* and *appreciates*?

The Twitterbot Philosophy of "Mere Generation"

Even a stopped clock is right twice a day.

So even a random Twitterbot will eventually tweet something that seems sensible and perhaps even profound. (The Keats Heuristic helps.)





Why was this one-word tweet worth re-tweeting **243** times? Because it coincided with the sacking of the NY-Times first *female* chief editor. Spooky huh!



Humans are constantly looking for *order, meaning and relevance*. A bot's audience may perceive aptness even where it is not intended.

Metapho

Magnet

MetaphorIsMyBusiness, Igor Brigadir replied to your Tweet!





MetaphorIsMyBusiness @MetaphorMagnet

Melody, haunting tragedy that you are, please affect me with your unforgettable emotion. #MelodyOrTragedy - 02 May



Igor Brigadir @IgorBrigadir #Eurovision via @MetaphorMagnet "Melody, haunting tragedy that you are, please affect me with your unforgettable emotion. #MelodyOrTragedy"

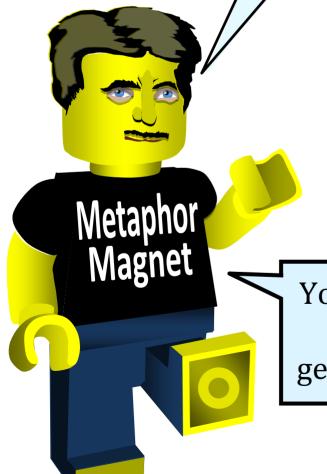
09:30 PM - 08 May 14

🔶 Reply to @IgorBrigadir

🔁 Retweet 🛛 ★ Favorite

All things being equal, a twitterbot should *earn* this perception of aptness and insight. But we humans are ready to grant it anyway, even if only "*playing along*".

Chance occurrences are not viewed as simple **coincidences**, but as acts of **fateful serendipity**, by an audience eager to find meaning and relevance.



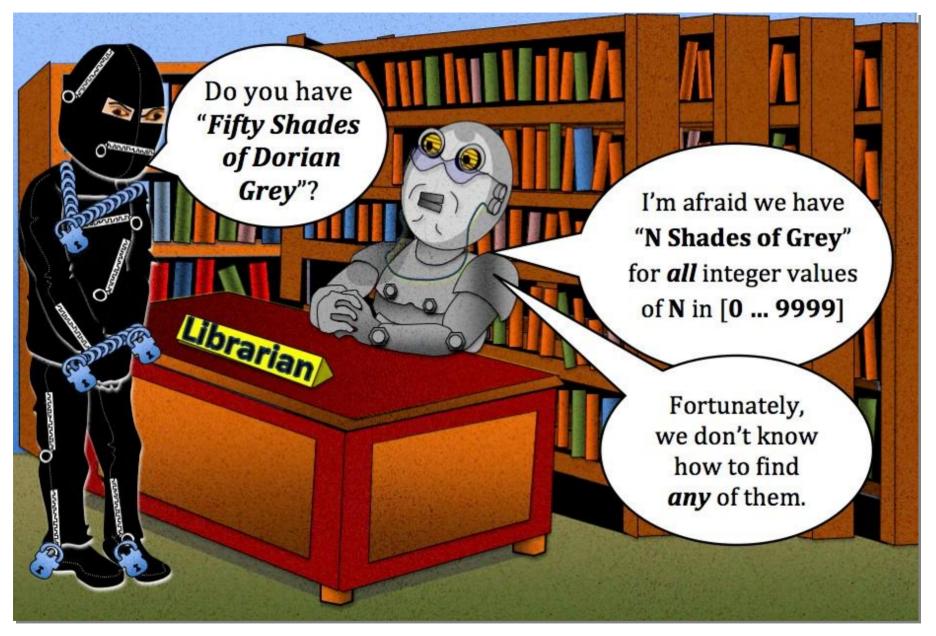


MetaphorIsMyBusiness @MetaphorMagnet

Popularizer. noun. A hacker who would rather spread emotionless styles than emotionless bots. **#PopularizerOrHacker**

🛧 Reply 👕 Delete ★ Favorited 🚥 More	
FAVORITE	
3:23 PM - 24 May 2014	

You'll have to take my word for this – though do check the date of the tweet – but the above output was generated *as* this tutorial was being written. *OMG #not*



"Mere" Generation: Generating Everything is EASY (remember the Borges story "*The Library of Babel*"). Selective Generation is *HARD*.

Most twitterbots fall into the category of *Mere Generation*. They are typically designed to playfully explore the possibilities of generation under minimalist conditions rather than to employ baroque knowledge structures or to be creatively self-critiquing.

www.ww

A good example of a minimalist bot is *Adam Parrish*'s *@everyword*. This bot is working its way through all the words of English in alphabetical order, generating one every half hour.



Why was this word re-tweeted 2,342 times? Well, you know why, but hold that thought, we'll come back to it later ...

@everycolorbot is another minimalist and very popular exponent of *Mere Generation*.
Simply, the bot generates a random color hex-code (six hex digits denoting an RGB color code) and a picture of the corresponding color.

Every Color @everycolorbot · May 22 0xbbc6a1 pic.twitter.com/mGcuXvPaFS Hide photo Reply 13 Retweet * Favorite RETWEETS FAVORITES 17

12:32 PM - 22 May 2014 · Details

Just as Borges' library of Babel provided *every* possible book, this bot will eventually tweet *every* RGB color.



In contrast, **Pastiche** is *"Riskless"* Generation that veers too close to its inspiring exemplars, to produce safe variations on a successful theme.

@museumbot by Darius Kazemi tweets a hi-res image and text caption from the catalogue of the *Metropolitan Museum of Art*, 4 times a day. Think of it as an artistic

metronome.

HO



Museum Bot @MuseumBot · May 21 Three Warriors and Their Horses, Study for a Bas Relief Sculpture in the Chateau de Tervueren metmuseum.org/Collections/se... pic.twitter.com/qb6coqUXMB

Hide photo

♣ Reply ♣ Retweet ★ Favorite ··· More



The bot does not generate new images or new captions of its own, but uses existing images/captions to good effect.

To steer a creative middle course, one needs *knowledge*. But most bots are so lightweight they practically use NO knowledge at all, beyond basic word & pattern knowledge.

Warning Knowledge-free Zone



@metaphorminute by *Darius Kazemi* tweets a metaphor-shaped text every *two* minutes (due to Twitter API limits). This knowledgelite but fun bot makes maximal use of the **Keats Heuristic**, to package its often bizarre juxtapositions in the familiar forms of poetic metaphor.



This metaphor bot makes use of Wordnik.com, a language web-site & dictionary with a Web API. Many words provided by Wordnik are *rare* or *abstruse*, lending tweets an air of mystery & ersatz profundity.



Metaphor-a-Minute! @metaphorminute · 1m a concomitance is a frostiness: iron-cased, yet unexpanded

Expand

Expand

A Reply 17 Retwo



a density considers a retaliation: bathrobed and burbly

Metaphor-a-Minute! @metaphorminute · 3m





Metaphor-a-Minute! @metaphorminute · 9m an aerie considers a purpura: hardshell and verdant

Expand

♣ Reply 13 Retweet





Metaphor-a-Minute! @metaphorminute · 13m an avaunt is a deviance: botchy, yet climacteric Expand



Metaphor-a-Minute! @metaphorminute · 15m a catalase is a parang: argumentative and ultrasoft @twoheadlines by Darius Kazemi uses the Cut-Up Technique developed by William Burroughs & Brion Gysin. Two texts are spliced to promote a jarring bisociation of ideas in the sense of Arthur

Koestler.









Two Headlines @TwoHeadlines · 5h Abdel Fattah el-Sisi No Longer Directing Marvel's Ant-Man



Two Headlines @TwoHeadlines · 6h

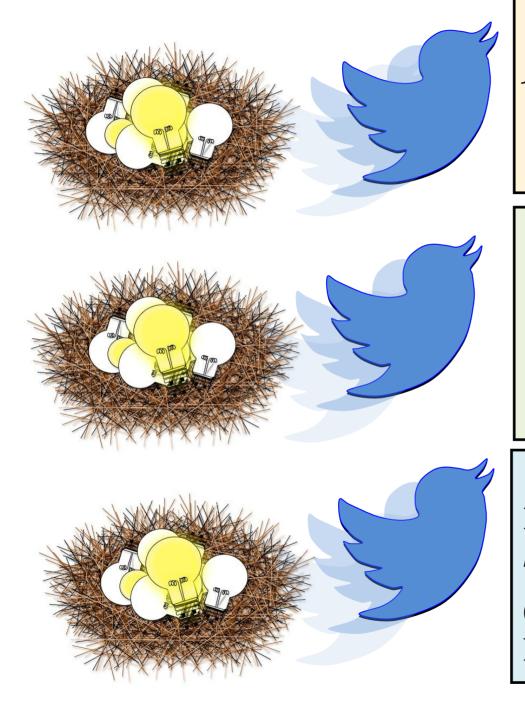
Arrest Made in 1978 Leonardo DiCaprio Pipeline Bombing

Expand

Expand

🛧 Reply 13 Retweet 🖈 Favorite 🚥 N

Knowledge? What knowledge?



Princeton WordNet

Pros: large dictionary/thesaurus; free use; hierarchical ISA structure

Cons: No explicit semantics; uneven coverage; no pragmatics

<u>ConceptNet</u>

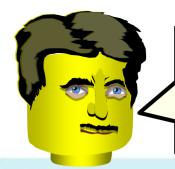
Pros: crowd-sourced KB; explicit semantic forms; common-sense

Cons: error-prone; lumpy; uneven coverage; generally unreliable

WWW / Web Corpora

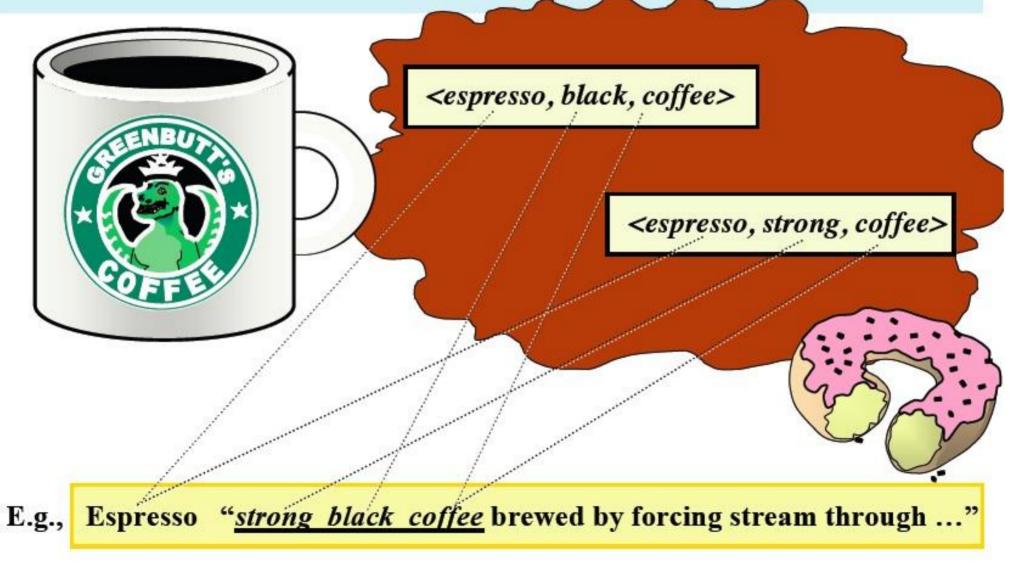
Pros: vast source of implicit beliefs; language in the wild; topical/dynamic

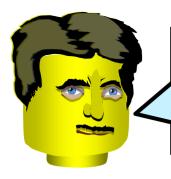
Cons: noisy; unstructured; knowledge must be extracted



WordNet provides a taxonomic super-structure for its senses, allowing good-old-fashioned AI-style ISA reasoning. It also provides text glosses for each sense, which might be parsed.

Shallow parse the textual glosses associated with individual WordNet senses

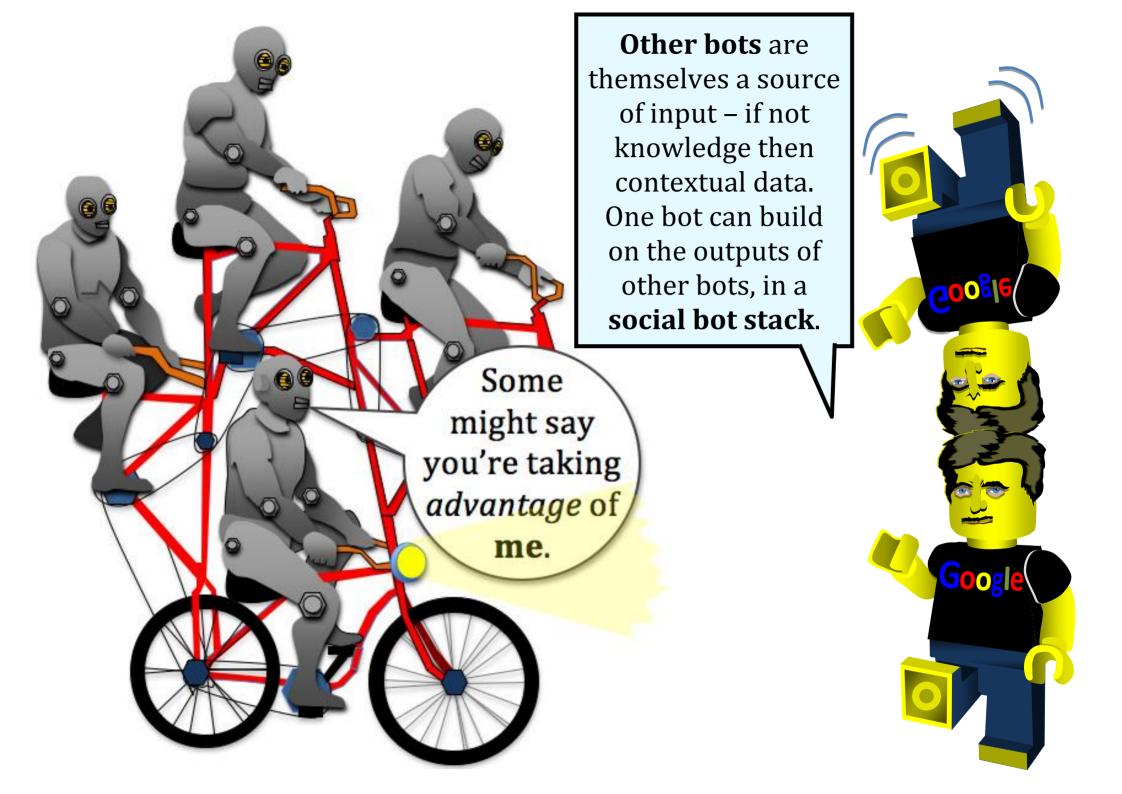




ConceptNet is a strange beast: more than a dictionary, less than a formal ontology. Its inventory of semantic forms is often used to encode typical associations, but some very bizarre ones too.

(IsA "bagdad" "capital") (IsA "bagel" "bread") (IsA "bagel" "breakfast food") (IsA "bagel" "chewy kind") (IsA "bagel" "doughnut") (IsA "bagel" "food") (IsA "bagel" "good food") (IsA "bagel" "pastry") (IsA "bagel" "roll") (IsA "bagel" "round bread") (IsA "bagel" "torus") (IsA "bagpipes" "musical instrument") (IsA "banjo" "stringed instrument") (IsA "bagpipes" "scottish instrument") (IsA "baseball bat" "long round") (IsA "bagpipes" "traditional irish") (IsA "bahrain" "island")

(IsA "bald eagle" "national bird") (IsA "bald eagle" "national symbol") (IsA "bald eagle" "national emblem") (IsA "bald eagle" "rare bird") (IsA "ballpoint pen" "english channel") (IsA "bambi" "cute character") (IsA "bambi" "ditzy name") (IsA "bambi" "pejorative name") (IsA "balloon" "rubber sack") (IsA "balloon" "expensive sport") (IsA "banana" "yellow fruit") (IsA "barn" "large structure") (IsA "baseball" "american tradition")



@appreciationbot by *Mike Cook* demonstrates the potential of bots to exhibit social interaction. This bot responds to tweets by **@museumbot** with critical appraisals of the artifacts it describes.

Arty

Fart

AppreciationBot @AppreciationBot · May 23

.@MuseumBot A curved blade. Interesting representation of a cylinder. A really wonderful piece, here.

View conversation

RETWEETED BY APPRECIATIONBOT Museum Bot @MuseumBot · May 23 Cylinder seal metmuseum.org/Collections/se...

 Image: Ward of the state o

This bot uses the *MetaphorMagnet* CC Web-service to source metaphors on demand (e.g. *cylinder as curved blade*) and *ConceptNet* to suggest possible relationships between things.
And it uses the Keats Heuristic to evoke a critical discourse.

Gram 1	Gram 2	Gram 3	Gram 4	Web Freq
sharp	as	a	tack	9355
smart	as	a	whip	5331
sharp	as	a	razor	3353
sharp	as	a	knife	2917
close	as	a	blade	2338
wise	as	a	serpent	1468
sharp	as	a	pin	1226
sharp	as	a	needle	1207
thick	as	a	pencil	910
thin	as	a	pencil	801
clear	as	a	crystal	594
sharp	as	a	sword	539
straight	as	a	dart	518
sharp	as	a	whip	507
sharp	as	a	blade	445
clean	as	a	pin	352
sharp	as	a	dagger	349
clear	as	a	diamond	344
keen	as	a	razor	341
fast	as	a	shark	318
quick	as	a	whip	316
flat	as	a	tack	263
qualified	as	a	specialist	236

Linguistic constructs like the simile frame *"as ADJ as a NOUN"* allow us to harvest a rich knowledge-base of stereotypical norms from the Web. ← These are from the *Google n-grams*.



why do businesses

why do businesses advertise why do businesses sell on credit why do businesses sell goods on credit why do businesses fail

Press Enter to search.

why do businesses do market research why do businesses diversify why do businesses develop information systems why do businesses downsize

Frequent Web queries are another source of a culture's implicit knowledge. We cannot access them directory, but we can *milk them* from *completions*.

۹

GOOGLE

I'm Feeling Lucky

Press Enter to search.

why do businesses di

why do businesses diversify why do businesses discount loans why do businesses differentiate their products why do businesses dislike uncertainty

Press Enter to search.

why do religions

why do religions exist why do religions have symbols why do religions have different sects why do religions fight

Press Enter to search.

why do religions b

why do religions begin why do religions ban pork why do religions believe in life after death why do religions ban alcohol

Press Enter to search.

why do religions be

why do religions believe in life after death why do religions believe in reincarnation why do religions believe in circumcision

Questions are the best source of **shared presuppositions** that others are assumed to believe also. So we use a trie approach to harvest as many as we can from **Google**. Q

Q

Google

Learn mo

We can then extract **Subject-Relation-Object** triples from these questions for our KB.

Press Enter to search.

But how can a bot **use** all this knowledge to write well, like me?

'The book fascinated him, or more exactly it reassured him. In a sense *it told him nothing that* was new, but that was part of the attraction. It said what he would have said, if it had been possible for him to set his scattered thoughts in order. It was the product of a mind similar to his own, but enormously more powerful, more systematic, less fearridden."

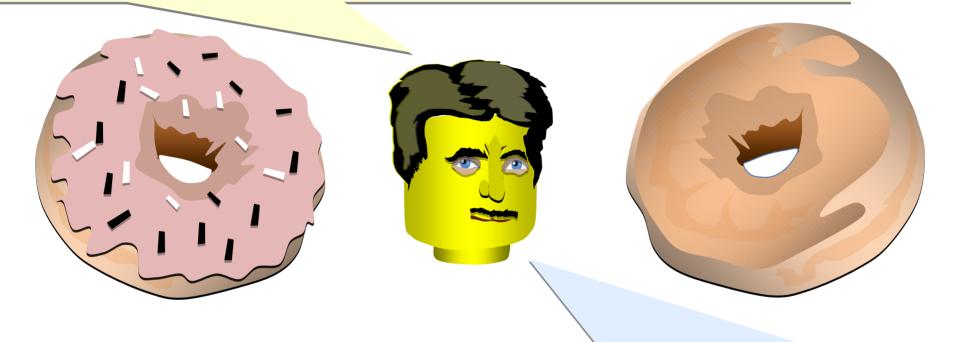
-- That's from "**1984**"

Orwell puts his finger on a dilemma: "*common-sense*" KBs aim for uncontroversial and yawn-inducing facts of the world. How can we ever use the contents of these KBs to generate reassuringly meaningful yet fascinating metaphors?

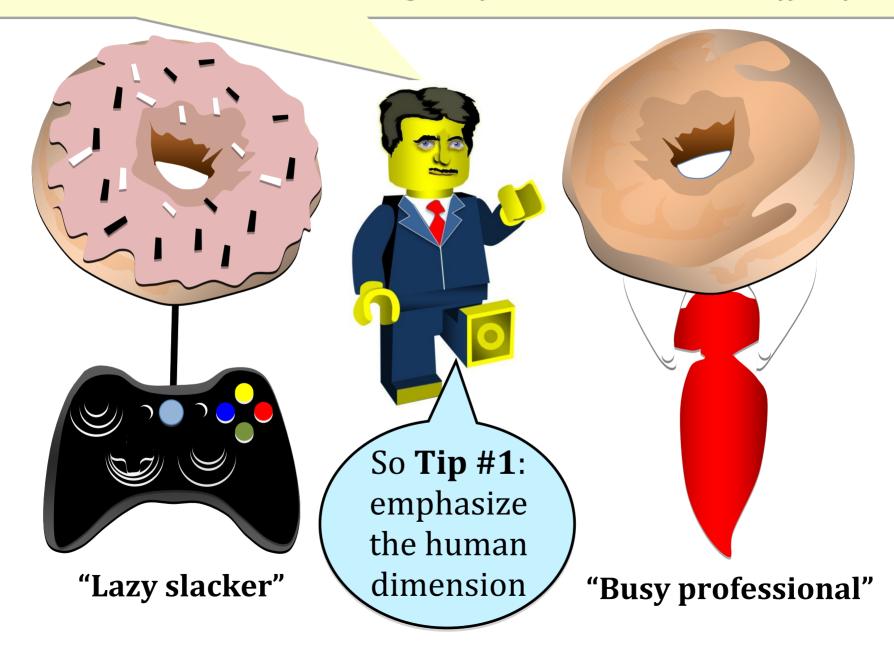




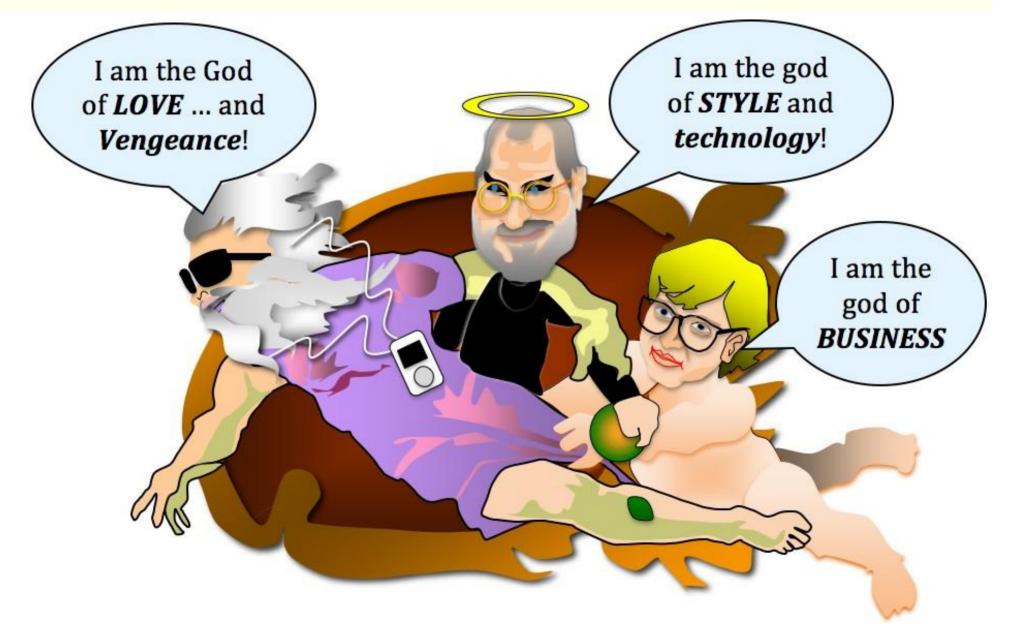
Consider what we all know about *donuts* **and** *bagels*: Each is typically round, with a hole in the middle; each is made from flour/dough; each fits in your hand and is tasty to eat. But donuts are typically *sweet* while bagels are typically *savory*.



So each is comparable to the other with obvious similarities. Each also contrasts in significant ways with the other. Thus, one would seem to be the ideal comparison for the other. So how interesting is the obvious metaphor? *Very boring indeed!* Unless ... we focus on the <u>human-scale</u> qualities of objects. For instance, donuts are "fun" foods while Bagels are more "serious". What about this tweet: A Bagel is just a donut with an office job



Tip #2: We have always created "Gods" to personify the concerns that are key to our lives. So use the pattern "**God of [X]**" to mine a list of the most significant "*human-scale*" concepts to use in our new metaphors.

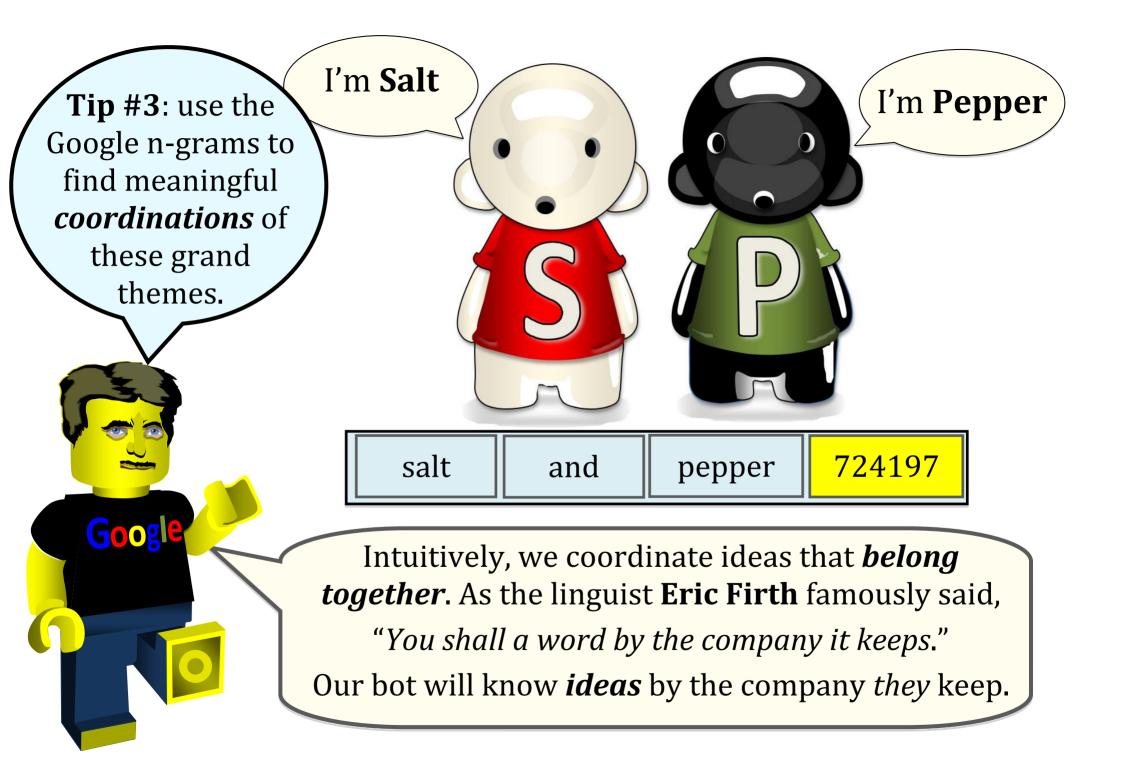


Gram 1	Gram 2	Gram 3	Web Freq
god	of	war	46729
god	of	love	15541
god	of	wine	11620
god	of	fire	9156
god	of	light	9072
god	of	thunder	9022
god	of	death	8891
god	of	agriculture	6564
god	of	wisdom	5469
god	of	fertility	5042
god	of	speed	4460
god	of	medicine	4167
god	of	healing	3931
god	of	wealth	3761
god	of	evil	2689
god	of	rain	2661
god	of	music	2553
god	of	darkness	2322
god	of	destruction	2317
god	of	justice	2007
god	of	dreams	1917
god	of	water	1862



Gram 1	Gram 2	Gram 3	Web Freq
culture	of	peace	66917
culture	of	life	63824
culture	of	corruption	52519
culture	of	death	46547
culture	of	violence	29002
culture	of	business	26596
culture	of	innovation	25469
culture	of	fear	22126
culture	of	hate	22091
culture	of	learning	17196
culture	of	impunity	15849
culture	of	safety	13401
culture	of	respect	11750
culture	of	secrecy	11337
culture	of	openness	9057
culture	of	poverty	8807
culture	of	excellence	8547
culture	of	tolerance	7423
culture	of	accountability	6948
culture	of	entitlement	6700
culture	of	silence	6338
culture	of	science	5946

We find other building blocks of human culture by using the pattern "culture of [X]" Google



Gram 1	Gram 2	Gram 3	Web Freq
life	and	death	647437
Pride	and	Prejudice	625550
profit	and	loss	328348
birth	and	death	193414
Heaven	and	Hell	156302
marriage	and	divorce	142132
health	and	disease	139914
success	and	failure	138816
sex	and	drugs	97568
Peace	and	Conflict	80388
Sex	and	Violence	79585
love	and	hate	68933
Health	and	Disability	64096
pleasure	and	pain	63237
health	and	illness	54406
Love	and	Death	51743
Justice	and	crime	51177
growth	and	poverty	49518
light	and	darkness	45872
Love	and	War	41754
peace	and	war	40148
Growth	and	Tax	37119
Fantasy	and	Horror	33109

So notice how our conceptual "Lego blocks" click together in very interesting ways on the Web. Google



Gram 1	Gram 2	Gram 3	Gram 4	Web Freq
life	is	a	struggle	³⁹ Tip #4:
Life	is	a	tragedy	
Life	is	a	mystery	observe how our
sex	is	a	sin	Lego blocks click
love	is	а	waste	together in <i>existing</i>
life	is	а	waste	metaphors in Web
marriage	is	a	sin	
Love	is	a	fire	n-grams.
life	is	a	battle	1132
Love	is	a	battle	1103
love	is	a	war	981
love	is	a	crime	981
love	is	a	mystery	968
life	is	а	disaster	955
Magic	is	а	fantasy	910
life	is	a	failure	Google
Life	is	a	Comedy	we can
love	is	a	flame bu	ild on these.
sex	is	а	waste	'es we can!
sex	is	a	pain	
life	is	a	risk	672
life	is	a	misery	591
Life	is	a	disease	556

Consider two tweets of *@MetaphorMagnet*. This Web 4-gram competition is a journey is enriched with some KB triples: *champions* win competitions; travelers **undertake** *journeys; Champions* are energetic; while travelers are usually exhausted.

Metapho

Magnet

MetaphorIsMyBusiness @MetaphorMagnet

Remember when competitions were won by energetic champions?

#CompetitionIsJourney #ChampionIsTraveller

competition	is	a	iourney	95
competition	15	d	Journey	95



MetaphorIsMyBusiness

@MetaphorMagnet

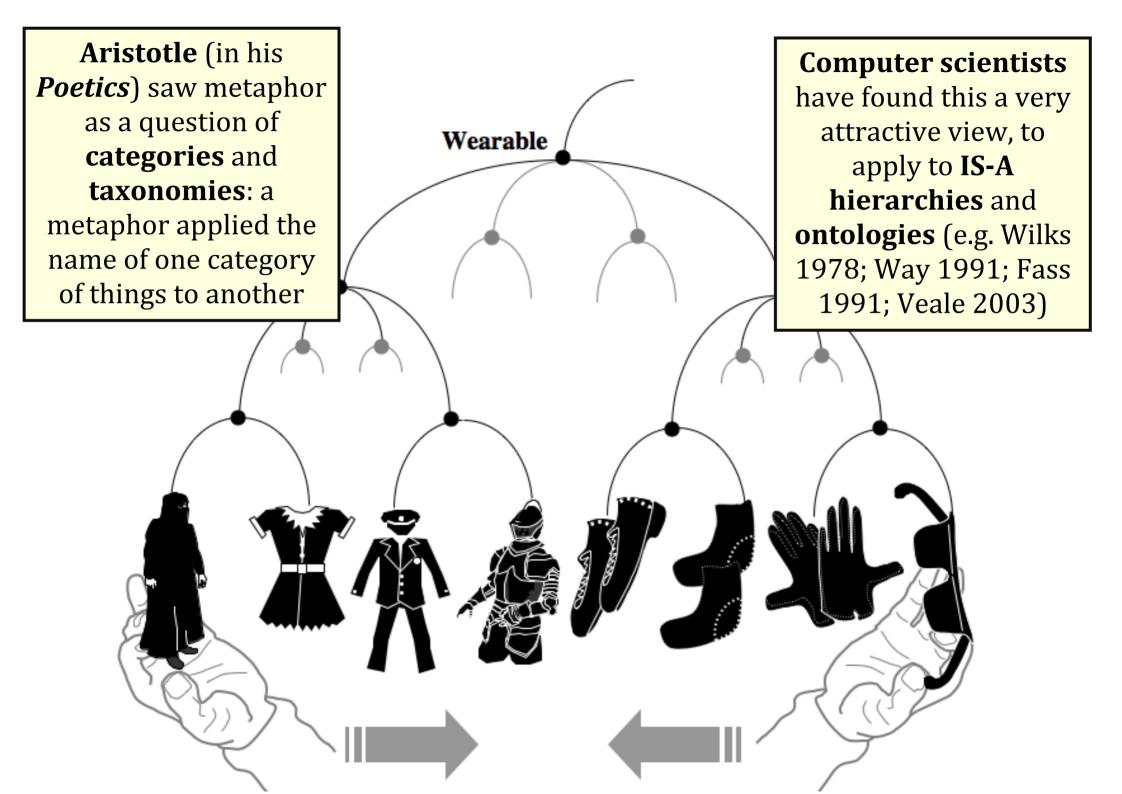
Now, competition is a journey that only exhausted travellers undertake. #CompetitionIsJourney #ChampionIsTraveller

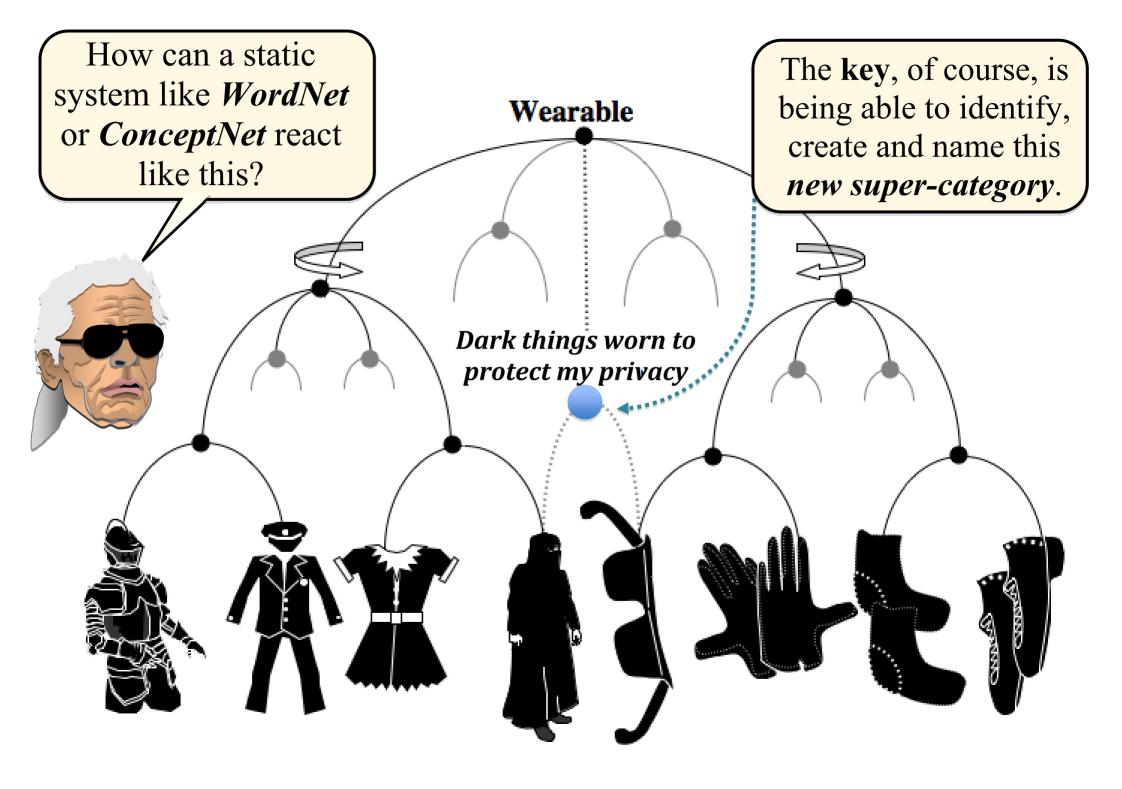
Note the deliberate semantic contrast between **energetic** and **exhausted**.

Tip #5: Deliberately combine Lego blocks that represent ideas that are in *conflict*, and not *obviously connected* in our

experience.

Case in point: When I, fashion guru Karl Lagerfeld, compared my perpetual Sunglasses to a Burqa. Oh, how the media loved that one!





@MetaphorMagnet uses any opportunity it can to show that two concepts with opposing properties may still reside in the same ad-hoc category. The Google n-grams are a rich source of Web-attested opportunities.



Group terms like *"army", "band"* or *"gang"*, or mass nouns in partitive constructions can put contrasting ideas into the same *ad-hoc category*. These \rightarrow pairings are all derived from attested n-grams.



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Band. noun. Collective term for a group of soulful songstresses and not-so-soulful ghouls. **#GhoulOrSongstress**



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Gym. noun. Collective term for a group of flabby slobs and less-than-muscular boxers. #BoxerOrSlob



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Deprivation. noun. Collective term for a group of poor paupers and not-yet-spoiled kids. #KidOrPauper



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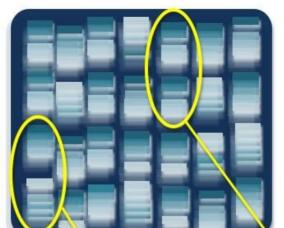
Machination. noun. Collective term for a group of shady schemers and not-yet-respected wizards. #WizardOrSchemer

Metaphor highlights the shared qualities of two ideas. So a good metaphor can surprise us by gathering and selectively framing what we **already know**!

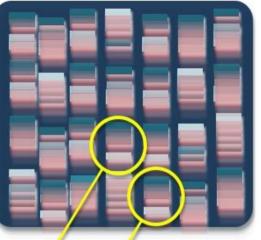
Metaphor

Magnet

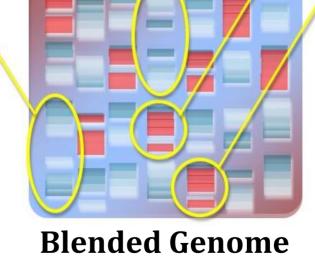




Input Genome #2

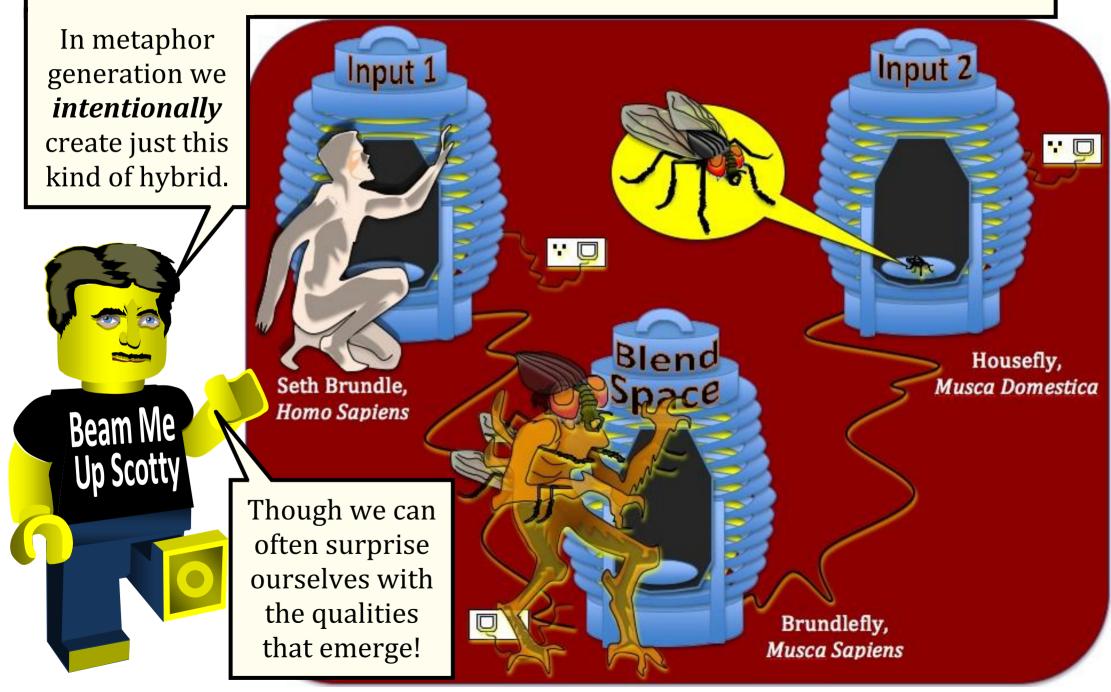


Think of our knowledge of a topic as its genetic material. A conceptual blend* splices the DNA of two concepts into a single hybrid genome.



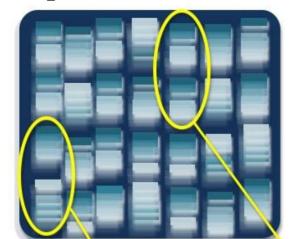
*Conceptual Blending Theory: Mark Turner & Gilles Fauconnier

A nice example of **DNA splicing** *and* **Conceptual Blending** is offered by the film **The Fly**, in which a scientist accidentally blends his own DNA with that of a fly.

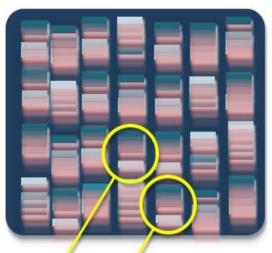


To craft an insightful metaphor from what we **already know**, deconstruct a known concept **as though** it were a *deliberate blend* of two others concepts.

Input #1: POET

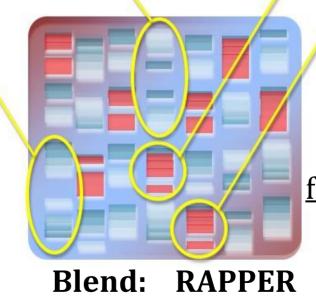


Input #2: COMEDIAN



Vanilla ICE - Tea

E.g., observing similarities between **Rapper** & **Poet** and between **Rapper** & **Comedian**, imagine **Rapper** as a deliberate **blend of Poet &** *Comedian*.



Rapper: <u>from Poet?</u> *Metaphorcomposing*. <u>from Comedian?</u> *Publicitygarnering*. @MetaphorMagnet uses the Keats Heuristic by packaging the metaphor as a dictionary entry in the style (a bot can dream!) of Ambrose Bierce's The Devil's Dictionary.

Bent



Rapper. noun. A funky hybrid of 1 part metaphor-composing poet to 1 part publicitygarnering comedian. #RapperOrComedian #RapperOrPoet



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@MetaphorMagnet uses the Google n-grams to characterize the blend itself, by finding an attested combo of a target property with a word denoting "*mix*" or "*blending*" Genius. noun. An accomplished mix of 5 parts eccentricity-developing misfit to 4 parts wit-sharpening comic. #GeniusOrComic #GeniusOrMisfit



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Scientist. noun. A thorough cross of 1 part monster-creating warlock to 1 part gadgetusing spy. #ScientistOrSpy #ScientistOrWarlock **To recap:** the opposite of what is *creative* is the *obvious*, not the *familiar*. Creativity, in metaphor and elsewhere, extracts new value from old ideas, by pushing us to see what we already know but do not always appreciate.

C.S.I

Miami

Truly creative bots must unleash the **shock value** in the familiar, via the judicious use of novel combinations and pushy inferences, to find where all the **bodies are buried**! UHHR EEEK AAAA

Causal Blending allows *@MetaphorMagnet* to interleave the norms of two concepts with *differing affect profiles* to achieve a surprising whole. Consider Artists: *(I used to be an artist!)*



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Artists create the beauties that underpin arts. Dictators suppress the critics that criticize arts. Who is better? **#DictatorOrArtist**



9:53 PM - 6 May 2014

By chaining KB triples together, a bot can observe that artists typically cause a *positive effect on the arts*. Seeing that critics can have a *negative effect on arts*, and dictators have a *negative effect on their critics* ...

... @MetaphorMagnet reasons that **dictators** can have the *same positive effect on the arts as artists*! This is sophistry as '*critic*' is used in two differing senses, but blend logic wins out: *Artists <u>may act like</u> Dictators!* So **@MetaphorMagnet** achieves **shock** value via **causal equivalence**: it uses simple reasoning over its knowledge-base to show that two very **different concepts** lead to the **same logical ends**.



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Televangelists embrace faiths. Jihadists threaten the infidels that disavow faiths. Who is better? #JihadistOrTelevangelist

🛧 Reply 🧯 Delete ★ Favorited 🚥 More



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Slavery imposes the chains that impose bonds. Marriage creates the attachments that create bonds. Take your pick. #MarriageOrSlavery?

You can't *handle* the truth!

Sophistry?

•

MetaphorIsMyBusiness @MetaphorMagnet

Lovers enjoy sex. Hookers profit from the sexuality that underpins sex. Who is better? #HookerOrLover

Why should *Creativity* researchers build *twitterbots*? As noted in the *Washington Post*, Twitter is emerging as a medium for conceptual art in which users actively seek out autonomous generation. Computational Creativity research can make a ground-breaking contribution.

"Abstraction may not resonate with many of @everyword's followers, who are just hanging around to retweet "sex," "weed" and "vagina" — at this point, the account's most-re-tweeted words. But the idea of using Twitter as a medium for serious art and social commentary has increasingly caught on with a ragtag group of conceptual writers, generative poets, and performance artists." -- Caitlin Dewey, The Washington Post, May 23 2014 A good place to start is by creating next-gen CC versions of existing bots that go beyond mere generation. Consider @everycolorbot – Mike Cook suggests a CC bot that would creatively name its own colors, in a witty parody of Dulux paint names.

Mike

This twitterbot could respond to **@everycolorbot** with novel names, in a game of dueling bots.



Dulux uses pretentious names with positive effect, but a bot might call this one "*mushrooms on toast*" or "*rusty battleship*". Such a bot would exhibit humor *and* visual appreciation. Software is NOT human. Software is NOT human. Software is NOT hum— Aaarrochhhhh/



MetaphorIsMyBusiness @MetaphorMagnet

Remember when information was gathered by harried reporters? #InformationIsManipulation #ReporterIsBitch



MetaphorIsMyBusiness @MetaphorMagnet

Now, information is manipulation that only spoiled bitches can specialize in. #InformationIsManipulation #ReporterIsBitch

Yet it has the power to *shock like a human*, and even to *offend like a human!* How can we *curtail* this power?



MetaphorIsMyBusiness @MetaphorMagnet

Should we even **try**? Prostitute. noun. An impure alloy of 5 parts stiletto-wearing stripper to 4 parts punterserving pub. #ProstituteOrPub #ProstituteOrStripper

Mark Sample's protest bot **@NSA PRISMbot** mocks the creepy collection of useless *"information"* by the NSA's all-seeing **PRISM** tool as revealed by **Edward Snowden.**

Can a Twitterbot be used as a tool of protest?

Zach Whalen thinks so. His <u>@ClearCongress</u> bot re-tweets the members of U.S. Congress, randomly redacting texts to protest their lack of transparency.



Susie Boyle of El Oscarhaven, Montana mentioned "bibliomaniacal" in a chat on Google Hangouts.

-<u>@NSA_PRISMbot</u>

<u>@NRA Tally</u> combines real statistics and place names that are drawn from an FBI database on past spree killings. To emphasize its call for gun control, it also includes a standard NRA response to such events.

Sample's <u>@NRA Tally</u> bot is more *creative*, in a *CC sense*, though it still relies on *mere generation*.

It generates fake news reports of fictional killing sprees, focusing on the specifics of the **firearms** used.

35 shoppers shot dead in Connecticut with a 12-gauge sawed-off Savage Stevens 311D. The NRA urges fewer background checks.

-<u>@NRA_</u>Tally

" ... not only can protest bots present society a bill it cannot pay, they can do so at the rate of once every two minutes. They do not bullshit around."

-- Mark Sample, protest-bot creator

So what are you waiting for? Twitter is a perfect medium for Computational Creativity. A wave of experimental bot builders has already blazed a path with fun, minimalist bots that have attracted users and whetted their appetite for more. Just imagine what CC research can bring to the party!

So C'mon — *SkyNet is not going to build itself!*

