THERE MAY ALREADY BE CROWS ON MARS

And Other Breaking News



Mike Cook (@mtrc)
Queen Mary University of London
possibilityspace.org

Let's See Some Bots!

entisting overling, for extending the continuous contin	WOYOD	@everyword ·	May 21, 2014		>
eviked eviker eviker whatienanii*	√ 1	11	♡ 16	ightharpoons	
data impremièra, ousqu'enchel quesqu'en reglace eventhia evenya, i vincie destane victare destane statane estat estane victare destane statane estat estane victare destane statane estat estane victare s est el victare victare estante por extende victare estatale en estante estatale en estante estante se estante en estante estante en estant	, MOVO	@everyword ·	May 21, 2014		>
	\Diamond	1 5	♡ 11	ightharpoons	
every compliady restrybility, course contribute, course co					~
~lutienari!~	\Diamond	13 18	♡ 12	\triangle	
data impremière, overpromphej encyde; overpromphej encyde; overplace everphing everywa; overde evictore evicing evictimi statum evita evitame evidance eliance evidance e el evitame evidance evidance evidance to evidance evidance to evidance evidance to evidance	wounds	@everyword ·	May 21, 2014		~
whatisma tive	○ 2	17 49	♡ 36	\triangle	
everywhere everything					>
"Milienaril"	□ 1	17 19	♡ 17	\triangle	
every exception, every exception, every exception, every exception of exception, every exception of exception					~
"Whitenativ"	\bigcirc	10 10	♡ 15	\triangle	

@everyword



@everyword



@big_ben_clock



Tiffany Schmidt 🔮 @TiffanySchmidt · Jan 13, 2014

Photo: saveoriginalthinking: (via Sneak Peak: Send Me a Sign by Tiffany Schmidt Bonus Story) tmblr.co/Zdrjrs14CkFZe

Q 1 1 1 0 1



Tiffany Schmidt 🔮 @TiffanySchmidt · Jan 13, 2014

Photo: saveoriginalthinking: (via Sneak Peak: Send Me a Sign by Tiffany Schmidt Bonus Story) tmblr.co/Zdrjrs14CkFZe



1









Stealth Mountain @StealthMountain · Jan 13, 2014 @TiffanySchmidt I think you mean "sneak peek"

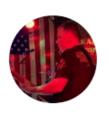


1









rich shepard @rednekrockstar · Jan 11, 2014

Replying to @StealthMountain

@StealthMountain I beg to differ, standing on secret hilltop no one can see but me lol #damnyouautocorrect











Marcus @Exp5hare · Jan 13, 2014

Replying to @StealthMountain

@StealthMountain Yes, I did mean "sneak peek." I totally missed that. My apologies.











Let's Make Some Bots!

Small and Snappy

Small and Snappy

Wiggle Room

Small and Snappy

Wiggle Room

Established Structure

Small and Snappy

Wiggle Room

Established Structure

Lots of Data/Examples

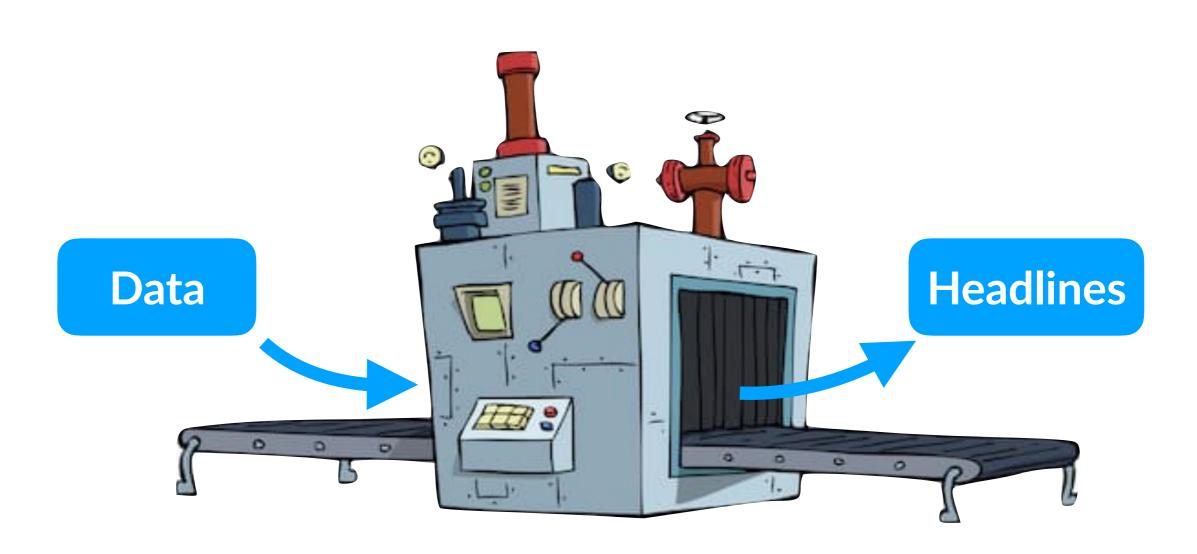


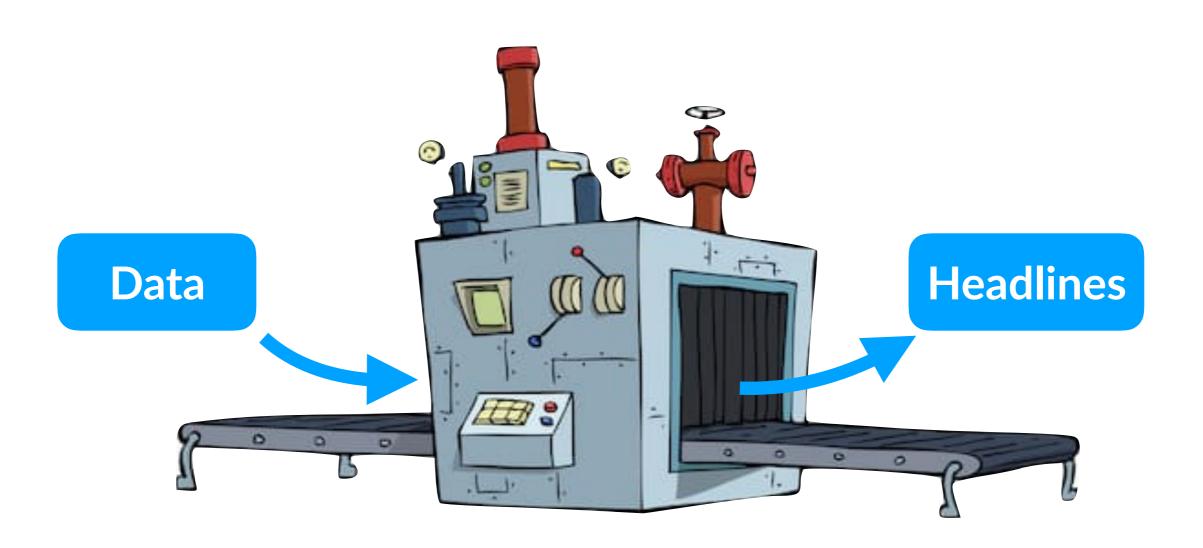
New species of giant salamander is the world's largest amphibian bit.ly/30pymQl



Laws are needed when technological change ends up squeezing workers The 4 ingredients to create consciousness could explain our own minds The best roguelike games are a perfect balance of order and randomness Does alien life have to look like us? Or even be intelligent? Fierce battle looks likely as land-dwelling mudskipper fish face off How aspirin became a wonder drug against heart disease and cancer The school climate strikes this Friday need the support of adults xkcd comic creator Randall Munroe on the thrill of physics Loch Ness Monster unmasked: it's a load of eels in a giant eel costume A stargazer's guide to the equinox and how Earth moves around the sun Deliberate drowning of Brazil's rainforest is worsening climate change Richard Dawkins: How we can outgrow God and religion Saturn's moon Enceladus is having a snowball fight with other moons Mathematicians find a completely new way to write the number 3

45,000 New Scientist headlines!





Idea: train a neural network on our corpus of headlines, and ask it to generate new ones



SYSTEM PROMPT (HUMAN-WRITTEN)

In a shocking finding, scientist discovered a herd of unicorns living in a remote, previously unexplored valley, in the Andes Mountains. Even more surprising to the researchers was the fact that the unicorns spoke perfect English.

MODEL
COMPLETION
(MACHINEWRITTEN, 10 TRIES)

The scientist named the population, after their distinctive horn, Ovid's Unicorn. These four-horned, silver-white unicorns were previously unknown to science.

Now, after almost two centuries, the mystery of what sparked this odd phenomenon is finally solved.

Results

See more:

@NewerScientist1

Artificial intelligence could speed up the world

Cool special: A spiders and the secret of consciousness

Solar Pole will change science

Inside the most powerful thing

Learn the end of the brain implant

Humans may have spreading continues

Time taken: 5 mins (prep), 1 hour (training), ??? (extra)

New Scientist

GONE BUT NOT FORGOTTEN

Alzheimer's doesn't erase memories after all

AWESTRUCK

Surprising upsides of feeling small

BOOM TIME

The explosive search for more powerful bangs ee more:
verScientist1

vorld

iousness

Inside the most powerful thing



H

Artif

Cool spec

No3136 £4.10 US/CAN56.99

WEEKLY 29 July 2017

PLUS Artificial intelligence could speed up the world

Time tal

1

15

? (extra)

Pros

- Able to generate really good headlines (uh, maybe with more data and time)
- Easy to get going pour the data and wait!

Pros

- Able to generate really good headlines (uh, maybe with more data and time)
- Easy to get going pour the data and wait!

Cons

- We don't have much control over what gets generated.
- It's hard to appreciate the process.
- Hard to angle towards humour or a 'message'.

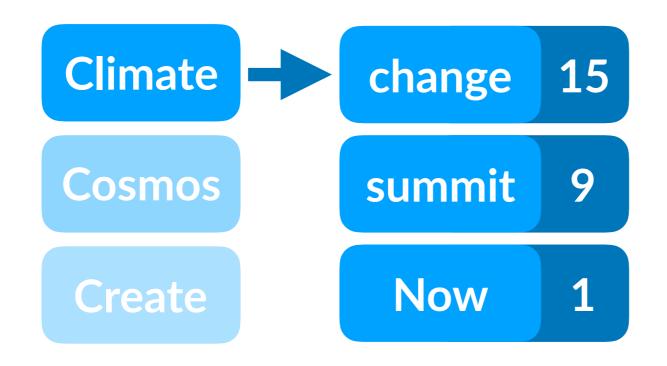
Climate



Climate

Cosmos

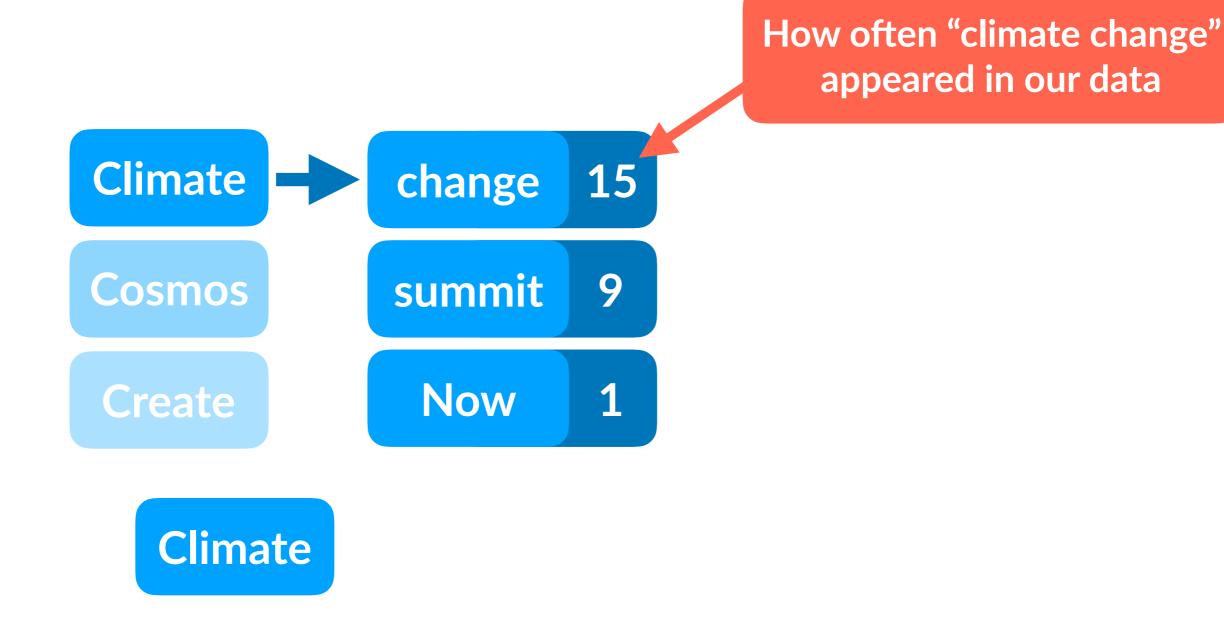
Create



Climate — change 15

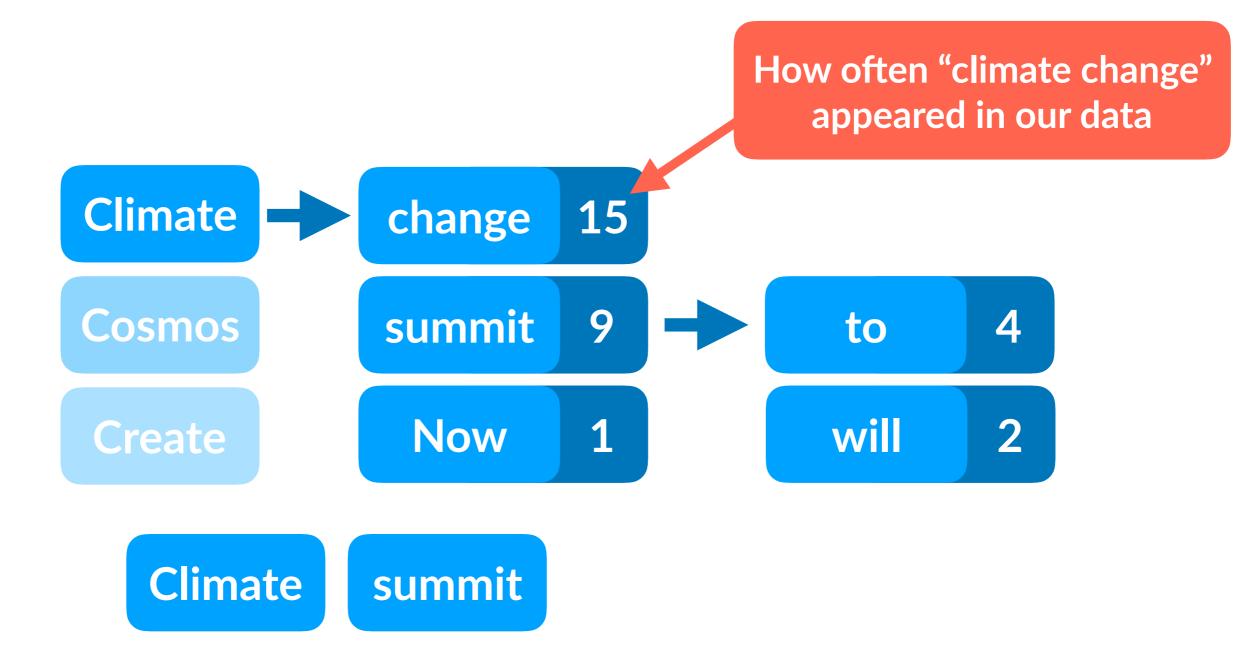
Cosmos summit 9

Create Now 1

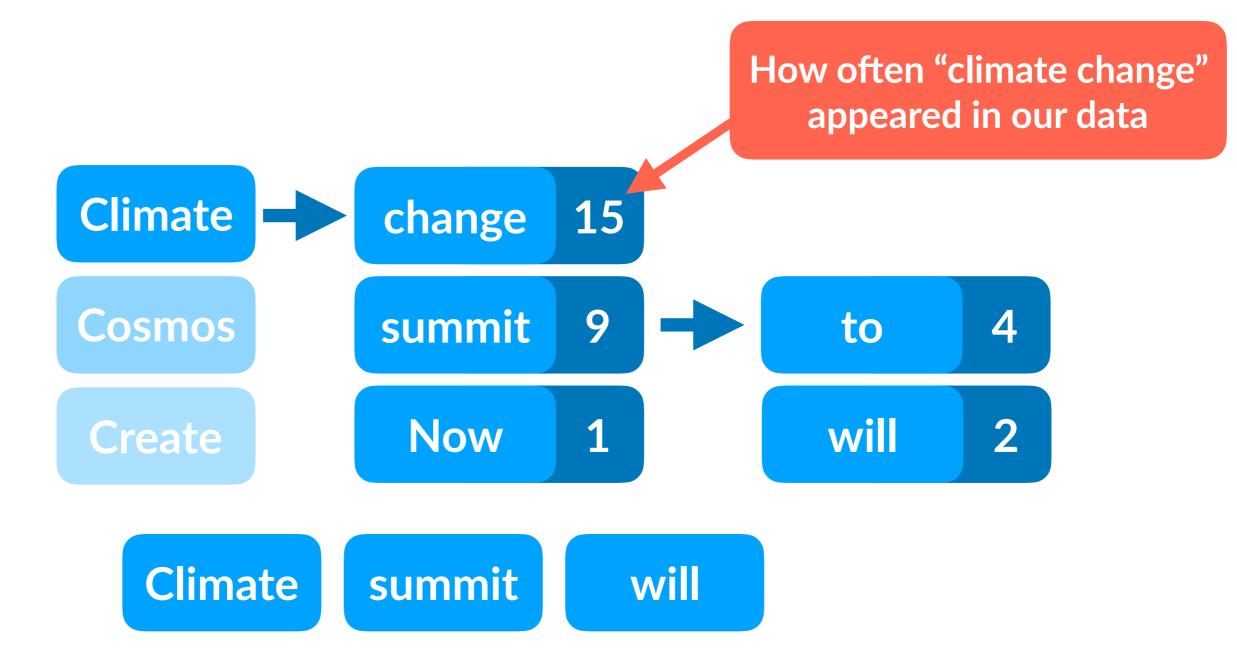


Climate change 15 summit Cosmos Now Create Climate summit

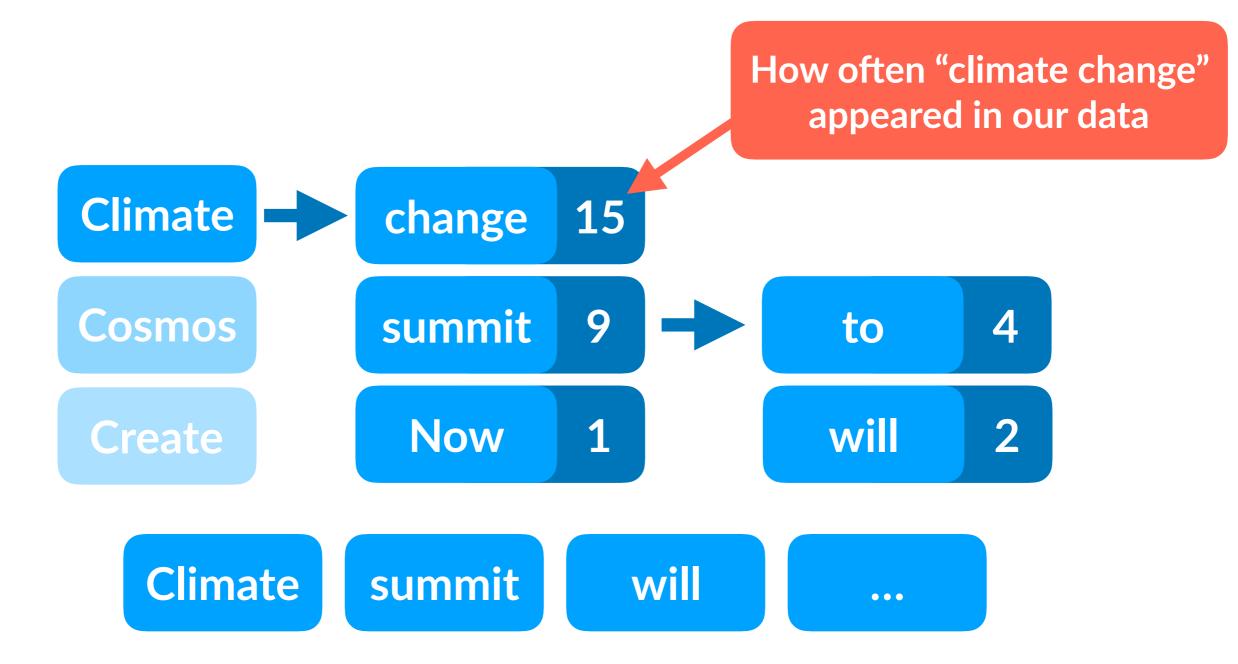
How often "climate change" appeared in our data



Idea: create new headlines using probabilities based on the old headlines ("neural networks lite")



Idea: create new headlines using probabilities based on the old headlines ("neural networks lite")



Idea: create new headlines using probabilities based on the old headlines ("neural networks lite")

Results

Algorithms that change lives should be eating 'backwards' gas

New world order is defying the science of religion and biology

Science's most controversial technology is back on track?

Norway is first alternative to animal tests for cosmetics

Cloud gaming may be 200 million years BC

Time taken: 1 hour (coding)

New Scientist

TEENY TINY UNIVERSES

Mini big bangs might be happening all the time

RETURN TO JUPITER

Mysteries of the solar system's majestic giant

CONTAMINATED BLOOD

Could more have been done to prevent deaths?

e more: erScientist2

:kwards' gas

and biology

on track?

osmetics

BC

Algorithms th

New world or

Science's m

Norway is

Clou

Norway is first alternative to animal tests for cosmetics



THE TRUTH ABOUT LIE DETECTORS

They don't work and never have. Why still use them?

PLUS SEA OTTERS V GREAT WHITE SHARKS / SCREAM SCIENCE / PLUTO'S OCEAN / CHIMP INNOVATORS / HYPERSONIC FLIGHT



Pros

- Simple and quick to code, but relatively good quality nonetheless.
- Easier to explain, easier to appreciate!

Pros

- Simple and quick to code, but relatively good quality nonetheless.
- Easier to explain, easier to appreciate!

Cons

- Hard to predict whether it'll generate gold or... nonsense.
- We still can't control much of the tone or direction of the bot.

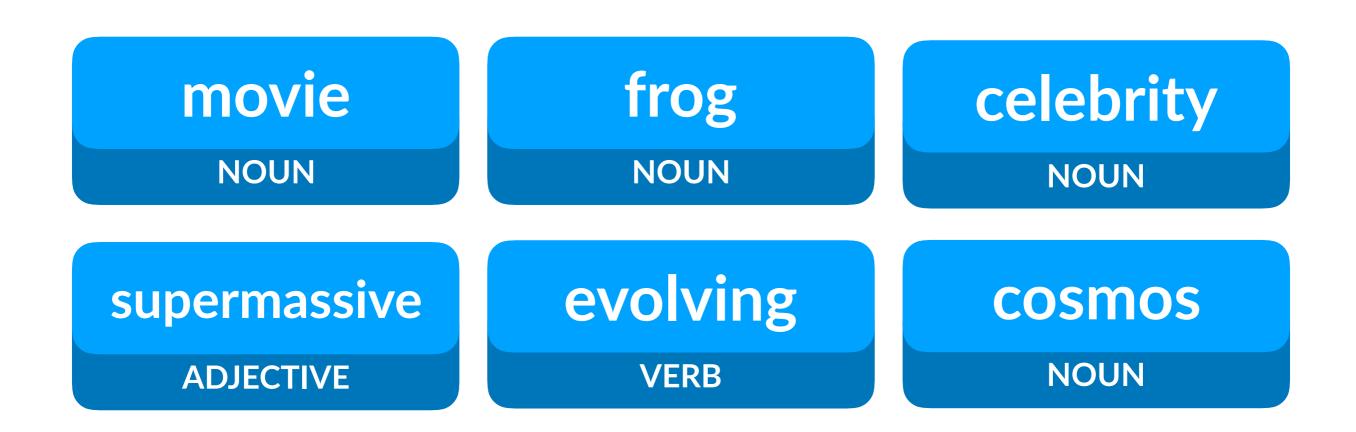
Artificial sun made with movie

magic could create clean hydrogen

Artificial sun made with

movie

magic could create clean hydrogen



Artificial sun made with

frog

magic could create clean hydrogen

Results

See more:

@NewerScientist3

There may already be crows on Mars

Folic acid supplements rejuvenate older tsunamis

The enigmatic cat we can hear - but have never seen

Internet gorilla can track you down to within 690 metres

Nuclear kangaroos - the ultimate insurance?

Mini robot space mayor to climb inside astronauts

Time taken: 30 minutes (code), 2-3 hours (editing, tweaking)



ee more:
verScientist3

namis

ver seen

90 metres

ice?

onauts

;, tweaking)

Folic a

The eni

Internet g

Nuc

Mini re

Time taken

Pros

- Lots of control, letting us mix data like ingredients, and focus it into structures.
- Very easy to explain and unpack to others.

Pros

- Lots of control, letting us mix data like ingredients, and focus it into structures.
- Very easy to explain and unpack to others.

Cons

- Labour-intensive: a lot of work involved in authoring, can run out of content.
- Highly curated which can reduce novelty (not always - but it takes experience and luck)



There's no "right answer" in Al



Designing a bot is full of artistic choices!

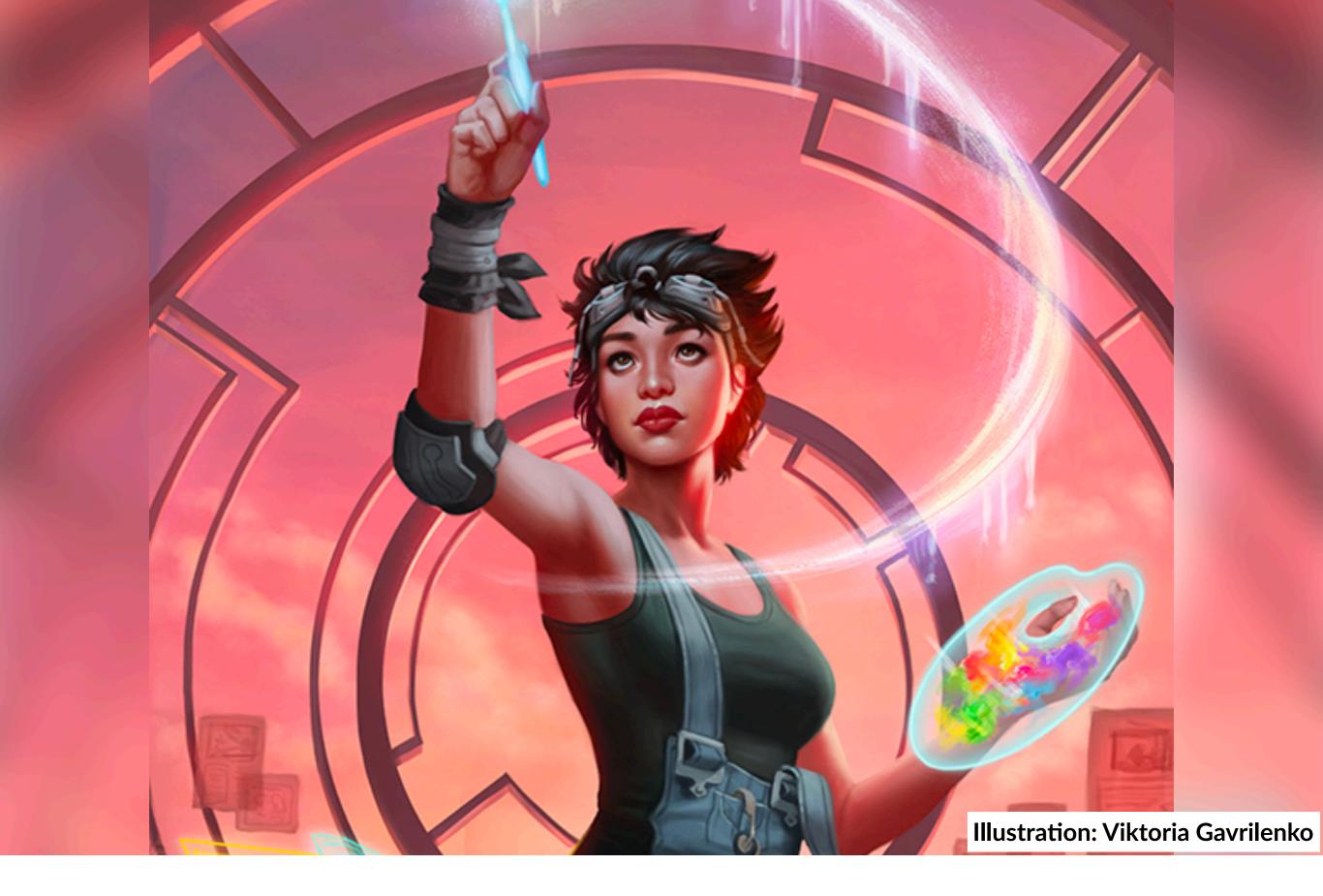


Then the puppy urinates on him.

12:00 AM · Nov 11, 2014 · Plot Bot

6 Retweets 8 Likes

Good bots are often very simple



Try out this digital artform yourself!

Make A Simple Bot, Today! cheapbotsdonequick.com

Lots of Resources:

github.com/prosecconetwork



Today's Newer Scientist Bots:

@NewerScientist1
@NewerScientist2
@NewerScientist3

Follow me for bad tweets: @mtrc