Twitter Thread by Janelle Shane



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What happens when a neural net tries to write rhyming lyrics?

Apparently, an ode to defunct Swiss chemical company Alusuisse.

The fine rhyming work of @mark_riedl's Weird A.I. program https://t.co/TAOlWBr7RI

Original Lyrics	AI Lyrics
No one's slick as Gaston	Is in the form of this
No one's quick as Gaston	Magical dragon cris
No one's neck's as incredibly thick as Gaston	And in the form of this magical dragon biss
For there's no man in town half as manly	You will be given a magical egg
Perfect, a pure paragon	Other than this magical
You can ask any Tom, Dick or Stanley	Dragon egg which is in the form of tegge
And they'll tell you whose team they prefer to be on	Egg and also in the form of this magical
No one's been like Gaston	Egg in the form of chris'.
A king pin like Gaston	Magical dragon fiss
No one's got a swell cleft in his chin like Gaston	And magical eggs also in the form of chris'
As a specimen, yes, I'm intimidating	The magical egg was given by dr j
My, what a guy, that Gaston	By the name of alusuisse.

Rhyming is super hard, especially in English where threw rhymes with through but not dough, and the emphasis patterns are all over the place.

There's lots of AI poetry but there's a reason it doesn't tend to rhyme

Roses are red
Violets are blue
I want to eat french fries with my nice ham and cheese
I want to eat all the bacon I can get
I want to eat the fresh frozen clams
The reason I love your spice rack is because there's no place to hide
You got potatoes the size of postage stamps

.@mark_riedl's algorithm has a part that chooses rhyming words, scoring them according to their similarity to the song's theme.

Here, "Uzbekistan" was the closest rhyme it could think of for "saucepan" given cakes as a topic.

Good job, AI

Original Lyrics	AI Lyrics
When I get older losing my hair	To taste instructions preheat oven
Many years from now	On medium high
Will you still be sending me a Valentine	In a medium bowl combine flour and
Birthday greetings bottle of wine	Dark brown sugar combine eggs and
If I'd been out till quarter to three	From the dry ingredients and beat
Would you lock the door	Or beat for about
Will you still need me will you still feed me	Another couple minutes add the beet.
When I'm sixty-four	In a medium
You'll be older too	And heavy saucepan
And if you say the word	Add egg yolks for about
I could stay with you	An uzbekistan

There's a subalgorithm that has to come up with lines of a given number of syllables.

Occasionally it gives up and returns a line that's way too short. Another subalgorithm chooses from several candidate lines & often prefers the short lines.

So you get

au-u-u-u-u-u-u-gust

Original Lyrics	AI Lyrics
Baa, baa, black sheep, have you any wool?	On august
Yes sir, yes sir, three bags full!	Sixteen seventeenth august
One for the master,	The entire world
And one for the dame,	Was changed forever.
One for the little boy	This would not have been so
Who lives down the lane	In history as
Baa, baa, black sheep,	It was in history.
Have you any wool?	Seventeenth august
Yes sir, yes sir,	In history.
Three bags full	The august

The subalgorithm that has to generate the rhyming lines often gets desperate, especially when the subalgorithm that chose the rhyme handed it something like "welp" or "alusuisse".

It will sometimes resort to making up words entirely

Original Lyrics	AI Lyrics
The wonderful thing about tiggers	In a long line you don't know who they
Is tiggers are wonderful things!	Are until they can help you in.
Their tops are made out of rubber	Also there is still alot to
Their bottoms are made out of springs!	Know before they can help you in
They're bouncy, trouncy, flouncy, pouncy	But not until they can help you out.
Fun, fun, fun, fun, fun!	And when they can help
But the most wonderful thing about tiggers is	You out it is alot to know about them too.
I'm the only one	A Turnip hoowelp welp

You can generate your own weird alternate rhymes for free and yes I absolutely want to read how they came out

Also

total karaoke power move: ignoring the words onscreen and singing an AI version instead

https://t.co/h1PuWOTIzu

> I\u2019m finally ready to release my neural net based lyrics parody generation system\u2026
>
> Introducing: Weird A.I. Yankovic!
>
> Runs on Google Colab: https://t.co/oMx7jSPQ0P pic.twitter.com/i0DTWvlsRm
>
> — Mark Riedl (@mark_riedl) May 15, 2020

Here's a karaoke algorithm by @botnikstudios that, instead of generating lines from scratch, picks them from an existing corpus (like X-files scripts)

Result doesn't rhyme or even make sense but DANG am I impressed how @jamieabrew can sing them on the fly https://t.co/GjYECF0jPj