

CAN A.I. BE ARTISTIC?

AND WHAT DOES THIS MEAN FOR ART?

address a very interesting question

lets go back to this headline

TECH / ARTIFICIAL INTELLIGENCE / CULTURE

Google's AI doodle bot will transform your crude drawings into glorious clip art

/ A taco can become a boomerang

By NICK STATT / @nickstatt

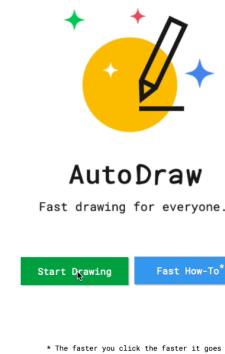
Apr 11, 2017, 10:43 PM GMT+2 | 0 Comments / 0 New



- headline from the popular tech news website The Verge from April 11, 2017
- about Google's AI "experiment" called: AutoDraw
- talks about a new Google AI that turns our scribbles into 'glorious' art, clip art
- Lofty Promise! What's behind this?

AUTO DRAW

- A “drawing tool for the rest of us”
- Analyses what you are drawing
- Suggests better clip art
- Your choice is a teaching moment
- Based on Quick Draw

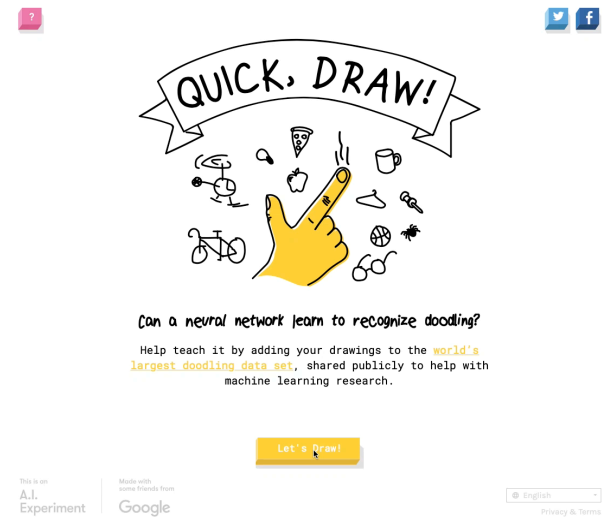


This is on
A.I.
Experiment

- rest of us meaning those with poor artistic skills
- draw your best version of anything, an airplane, a beautiful mermaid
- algorithm will try figure out what it is that you're trying to draw in real time.
- suggests better drawings in its database based on your input
- pick to replace your amateurish creation.
- Your pick confirms that the AI made an accurate guess
- Pass over suggestions, that's negative feedback and it'll be less likely to suggest it in the future.
- Over time, therefore, its guesses get better and better.
- another AI experiment that came before it

Quick Draw

- 20 second challenge!
- ML through fun little games
- 800 million drawings from 20 million people in 100 nations!
- AI can look at the “bigger picture”
- Teaching human thinking patterns



- In QuickDraw, us humans are challenged to doodle keywords in 20s. and let the AI guess what we are drawing.
- Now, Google hasn't disclosed technical details on how this works exactly.
- But the concept I find to be remarkable! Building ML datasets through fun little games
- Quick draw is used as a trainer, where peoples scribbles to keywords are analysed by the AI to learn for future instances
- Not just the subject matters, but also each individual stroke and element.
- The AI here is shockingly fast at recognising most of my amateurish scribbles.

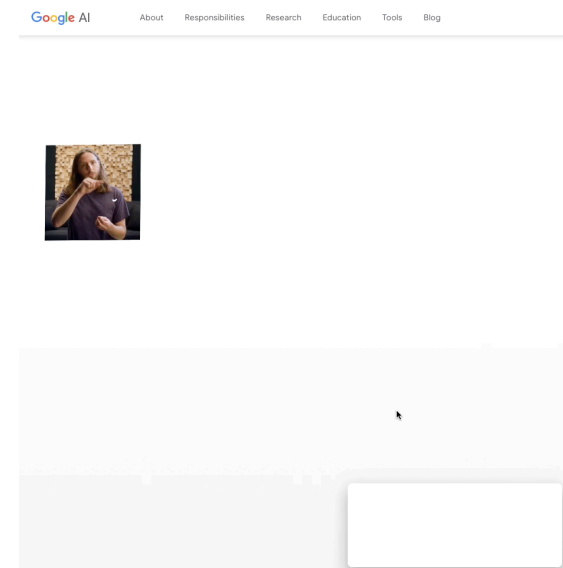
OK, NEAT! BUT WHY?

- Google bets bit on AI and ML:

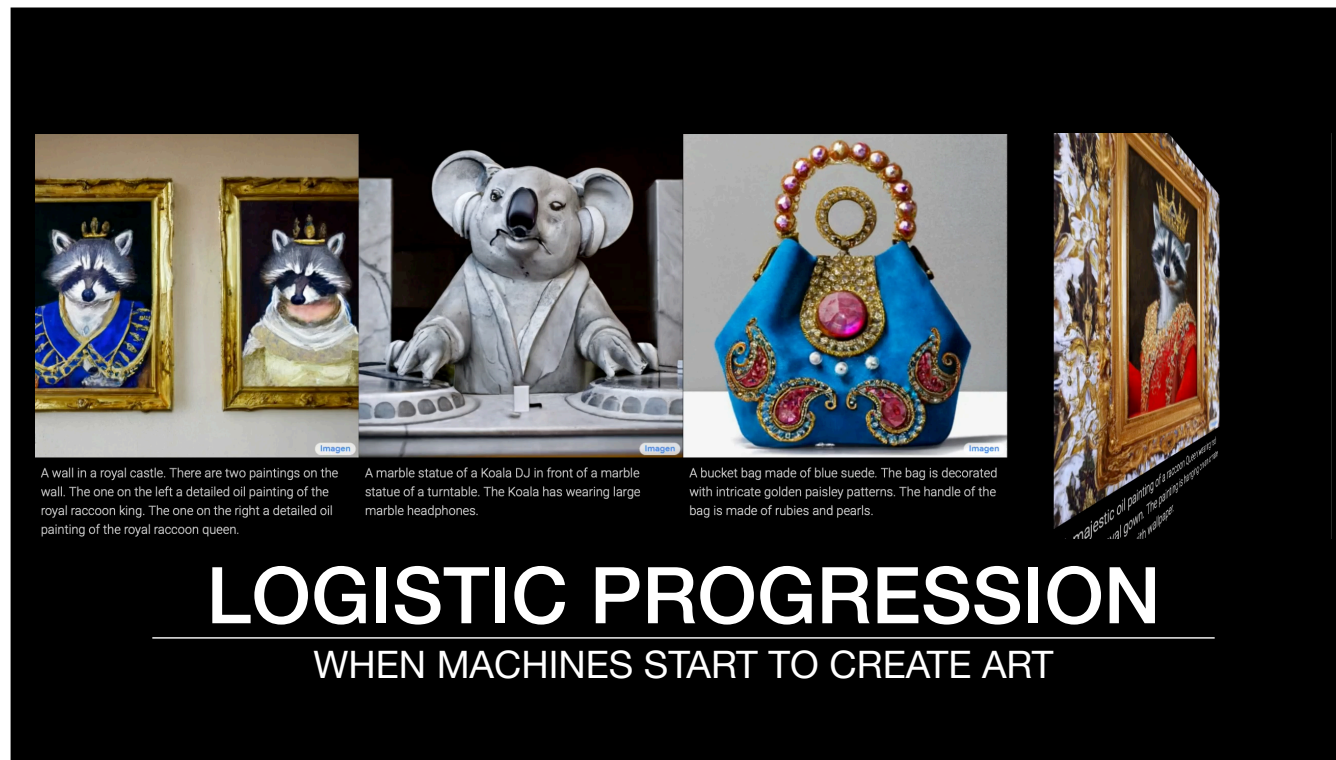
“At Google AI, we’re conducting research that advances the state-of-the-art in the field, applying AI to products and to new domains, and developing tools to ensure that everyone can access AI.”



- Similar recognition technologies found in other products
- AI Experiments



- It's no secret that Google sees Neural Network AI and machine learning as the future of computing
- Google's mission is to organize the world's information and make it universally accessible and useful. AI is helping us do that in exciting new ways, solving problems for our users, our customers, and the world
- In fact, we can see the underlying technology which powers this fun app in many things like handwriting recognition, photo subject analysis and more!
- You should check out: AI Experiments!
 - Similar Games, but also datasets on a large variety of topics, including music, writing and more!
- But where do we go from here?



- This year we have seen great strides in artistic AI - there are Dall-E and Google's counterpart Imagen which take user keywords and generate new images from them.
- Of course these go further than simpler machine learning and use some really intricate neural networking, but they draw on the lessons of the simpler tools like Auto and Quick Draw
- Potential risks of misuse: Deepfakes, art forgery and more!
- What does this mean for our own perceptions of art and achievement, when a Rembrandt portrait of a Raccoon is but a user prompt away?
- We have to wonder, when will our AI creation surpass us