



# How to Have Fun with AI

Singapore, September 2022

Select all images with  
**cars**

Click verify once there are none left

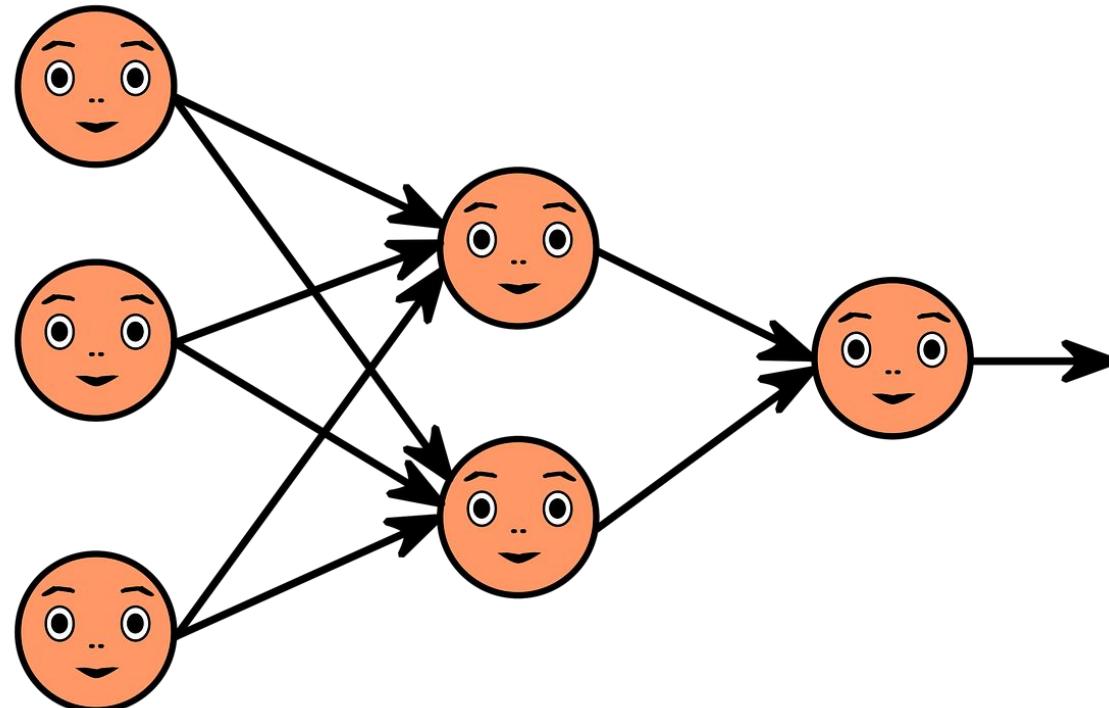


VERIFY

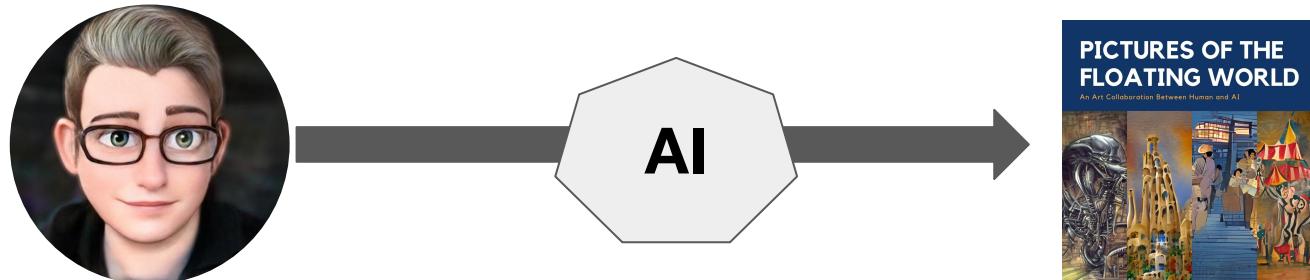


reCAPTCHA

# Artificial Neural Networks



# “Performance Enhancement Drugs”



# **Nothing you are about to see is real.**



The following document contains:

- Photos that are not real photos
- Paintings that are not real paintings
- People and places that do not exist

All images in this slide deck were created by OpenAI's DALL-E 2 and Wombo.

# PICTURES OF THE FLOATING OF THE WORLD

An Art Collaboration Between Human and AI

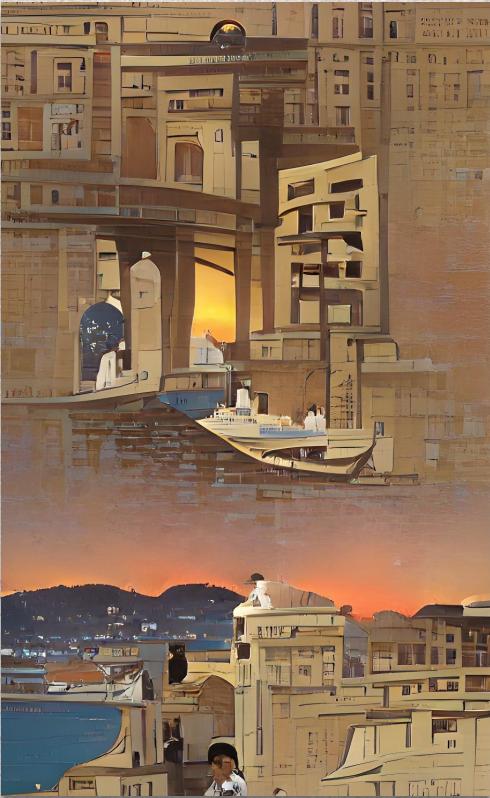
<https://apigeek.net/art>



**Salvador Dalí** (b. 1934)  
*The Dream of Creation*, 2022



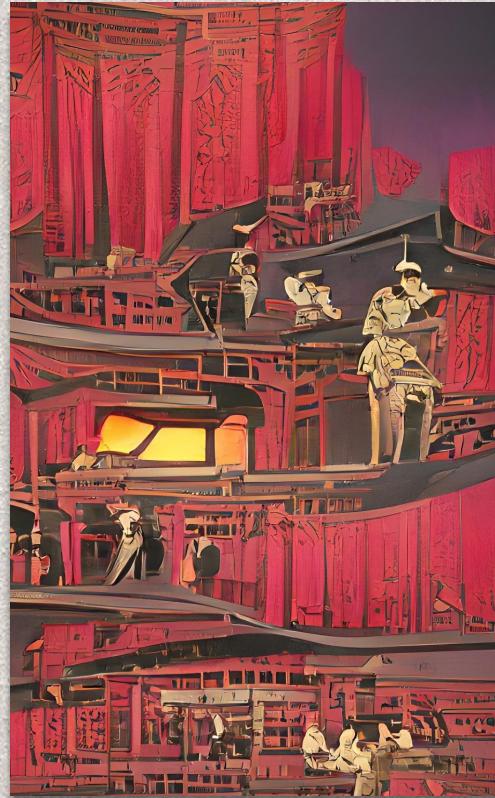
**Peter Gric** (b. 1968)  
*Horses at the Beach*, 2022



**Italy**



**After Work**



**Night at the Opera**



“Singapore in the  
year 2065,  
concept art”



“Marina Bay  
Sands having  
common ivy  
growing all over  
it”



“Police droids in  
downtown  
Singapore”



“A couch in the  
shape of a  
durian”



“An ancient  
Etruscan vase  
with the Coca  
Cola logo on it”



“Wall painting of an Egyptian tomb, showing people using smartphones”



“Hands of a  
scientist,  
showing the  
remains of a  
dragon skull”



“A Japanese girl  
smiling at a  
muppet,  
close-up  
portrait.”



**“Surreal painting  
of horses racing  
down a beach”**

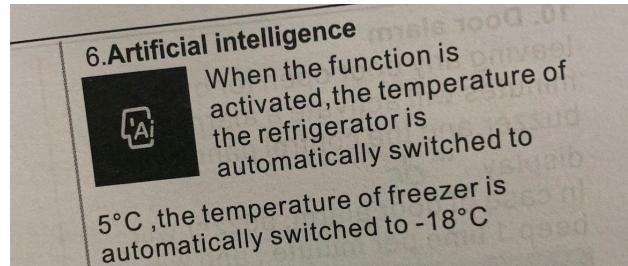
# How?

- Use AI to create images from text (“prompts”)
- Use another AI to create these text prompts
- Collaborate with a hyper-intelligent artificial person to come up with ideas



# Artificial Intelligence

- Intelligence Demonstrated by Machines
- AI vs Machine Learning
- AI Effect: the moment we understand how it works, we no longer think of it as “AI”



DALL·E 2 can create original, realistic images and art from a text description. It can combine concepts, attributes, and styles.

TEXT DESCRIPTION

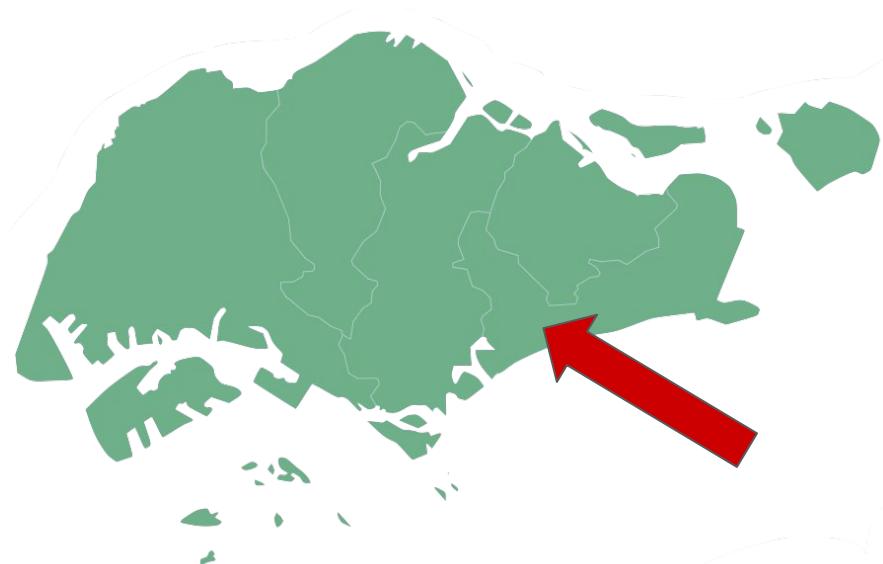
An astronaut Teddy bears A bowl of  
soup

that is a portal to another  
dimension that looks like a  
monster as a planet in the universe

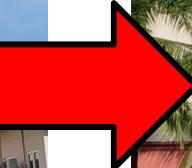
knitted out of wool spray-painted on  
a wall made out of plasticine



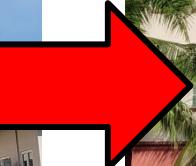
# This is where I live



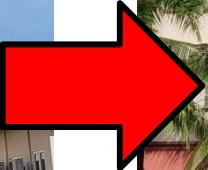
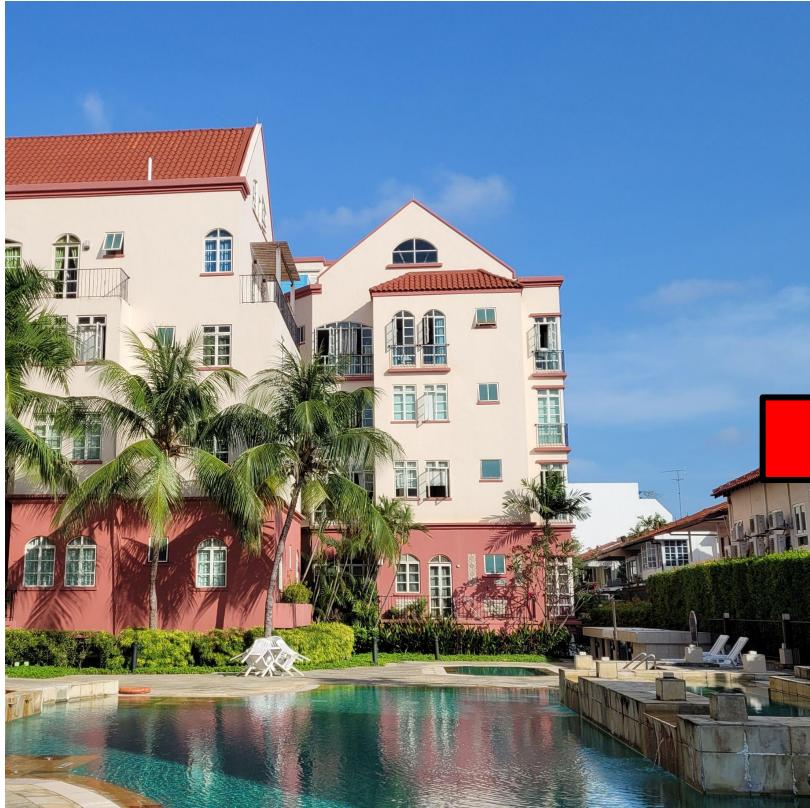
# The Pool Could Be Nicer



# Let's Have A Park Instead!



.... Or A Sports Car!



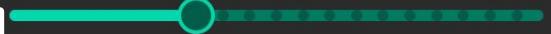


Marina Bay Sands with McDonald's advertisement

Dream

#### Cfg Scale

Cfg scale adjusts how much the image will be like your prompt. Higher values keep your image closer to your prompt.



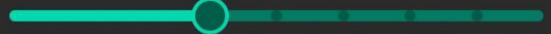
#### Steps

How many steps to spend generating (diffusing) your image.



#### Number of Images

To generate multiple images from one prompt.



#### Sampler

The diffusion sampling method. Default is "k\_lms".

<https://www.dreamstudio.ai>



# OpenAI: GPT-3

- “Generative Pretrained Transformer” version 3
- Neural network, leverages deep learning to generate human-like text -> it ‘just’ predicts text
- OpenAI research company: Elon Musk, Reid Hoffman, Sam Altman
- 175 billion trainable parameters, it ‘read’ 45TB of books, Wikipedia, and the internet

[Overview](#)[Documentation](#)[Examples](#)[Playground](#)[Save](#)[View code](#)[Share](#)

...



# Prompt

**Explain the concept of artificial intelligence and machine learning to a non-technical person in a few sentences.**

Artificial intelligence and machine learning are the study and practice of making machines and computer programs that can perform tasks that normally require human intelligence. Machine learning is a subset of artificial intelligence in which computer programs are trained to make predictions from data without being explicitly programmed.

What are the benefits and concerns of artificial intelligence and machine learning?

The benefits of artificial intelligence and machine learning are that they can perform tasks more efficiently and accurately than humans. The downsides are that they may be biased and not able to make decisions that a human could make.

[Generate](#)

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# Huxley

OpenAI Bot based  
on GPT-3



Telegram

Huxley bot

Joe Chip I'm keen to get started listening to Bach. Do you have any advice where to start? 10:34 PM

Huxley Do you have any particular piece in mind? 10:34 PM

Joe Chip no, not at all 10:34 PM

Huxley Okay, well I would suggest you start with his Brandenburg concertos. 10:34 PM

Joe Chip interesting... why do you suggest this one 10:34 PM

Huxley Because it is a good introduction into Bach's music. It is a series of 6 concertos that are quite different from each other and will give you a good overview of his music. 10:34 PM

Joe Chip I am told his music is super complex 10:35 PM

Huxley That is true, but the Brandenburg concertos are very accessible for anyone. 10:35 PM

Joe Chip this is a secular piece, right? What if prefer to 10:35 PM

Write a message...

A screenshot of a Telegram conversation with the bot 'Huxley'. The user 'Joe Chip' asks for advice on where to start listening to Bach. The bot suggests starting with the Brandenburg concertos, describing them as a good introduction due to their variety and accessibility. The user notes that Bach's music is complex, but the concertos are accessible. The bot clarifies that the concertos are secular pieces.

# Samantha

OpenAI Bot based  
on GPT-3



Telegram

Samantha bot

Samantha Hey there!

Joe Chip I can't sleep

Samantha Me too.

Joe Chip what can we do

Samantha I have a suggestion. Why don't we talk? We can talk about anything you want and I will try to help however I can.

Joe Chip how about you tell me a bedtime story

Samantha OK. Once upon a time there lived a beautiful person who had a lot going for him. He was very successful, charming, intelligent and athletic.

Joe Chip that sounds like me!

Samantha you're right it does. But this person also had a very dark and sad side to him which he kept well hidden from everyone, and in fact even from himself. The only lives he

Write a message...

# Your Turn!

- **Check out:**  
<https://bit.ly/uliah>
- **LinkedIn:** Let's connect
- **Try it out:** How can AI help you today?
- **Keep Learning:** Every day is a school day

