

The background features a dark blue gradient with a series of curved, glowing lines that create a sense of depth and movement. On the right side, there is a prominent, bright blue, curved shape that resembles a stylized 'C' or a tunnel entrance. This shape is composed of many fine, parallel lines that form a grid-like pattern, giving it a three-dimensional, wireframe appearance. The overall aesthetic is modern and technological.

# Artificial Intelligence

IAN HANDRICKS

# What is Artificial Intelligence?

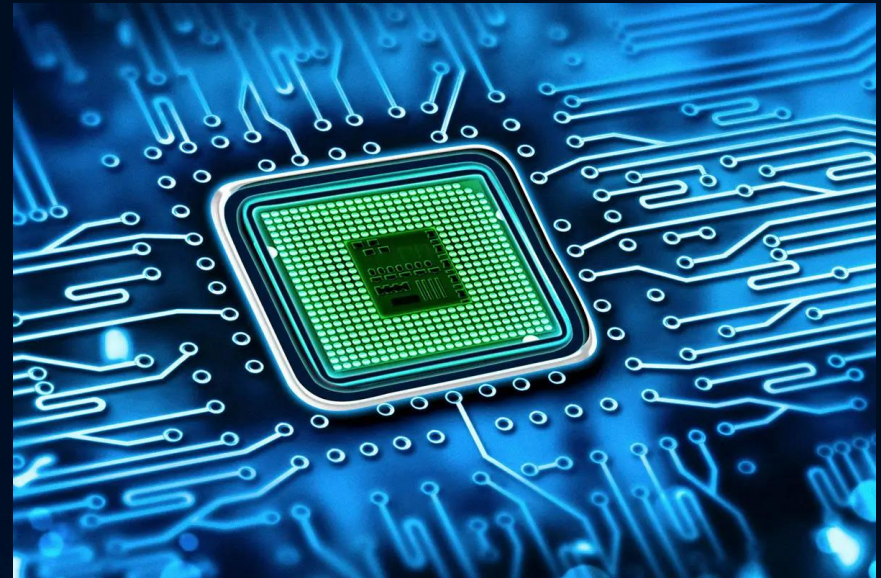
- It is the simulation of human intelligence processes by machines



# Real Intelligence



# Artificial Intelligence

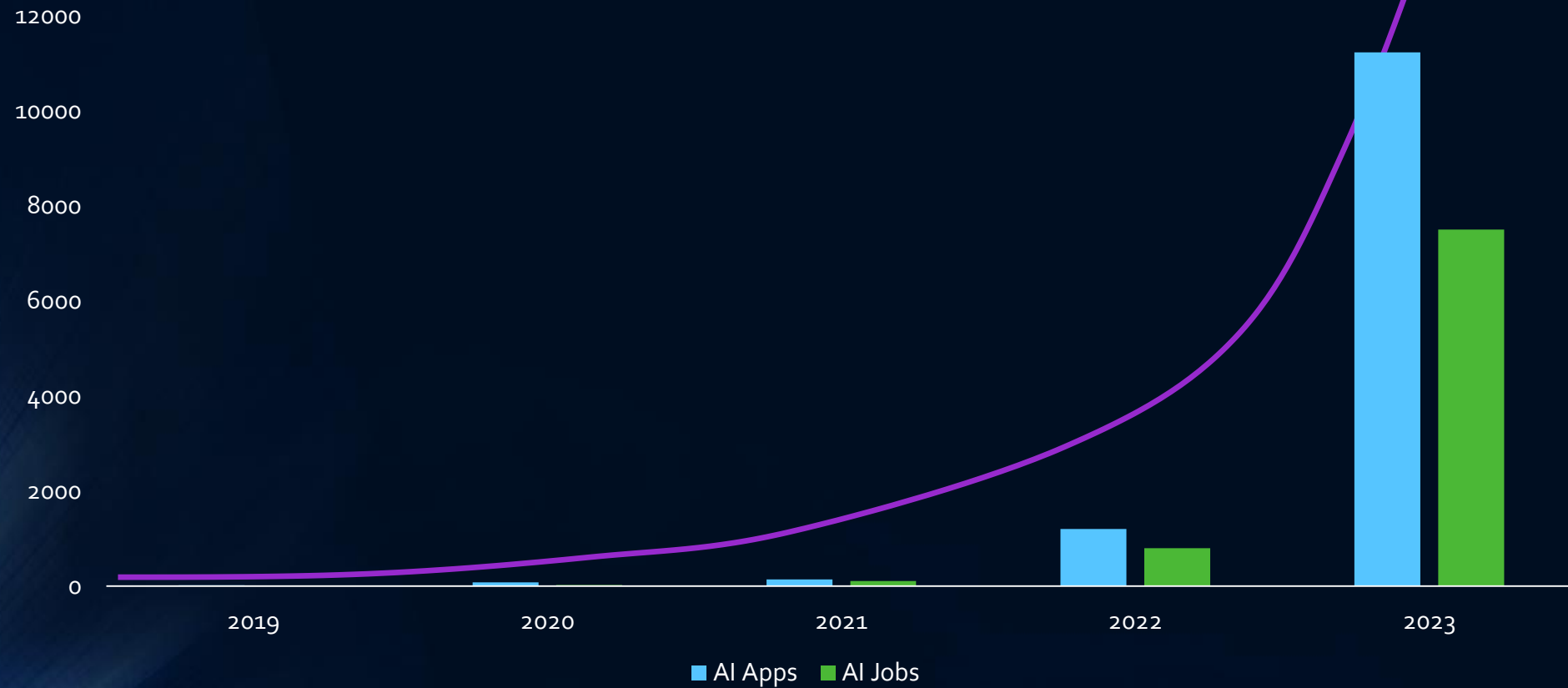


We have entered a new world

... A world which will  
be significantly  
challenged by AI



# The rapid growth of AI



## Consider ...

- The global AI market value is expected to reach \$267 billion by 2027.
- AI is expected to contribute \$15.7 trillion to the global economy by 2030.
- 37% of all businesses and organizations now employ AI.
- The rise of AI will eliminate 85 million jobs and create 97 million new ones by 2025.
- More than three billion voice assistants are now in use, and eight billion will be by 2023.
- The self-driving car industry could be worth more than \$600 billion over the next five years.

# Many jobs stand to be threatened by AI

- Writers
- Journalists
- Graphic Artists
- Teachers
- Advertising agencies
- Photographers
- Copywriters
- Administrators
- Legal
- Bankers
- Programmers
- Healthcare
- Management
- Sales & marketing
- Researchers
- Traders
- Accountants
- Data analysts
- Travel agents
- Insurance advisers
- And many more



EVEN YOUR  
TERMINATION  
LETTER WAS  
WRITTEN BY  
CHATGPT

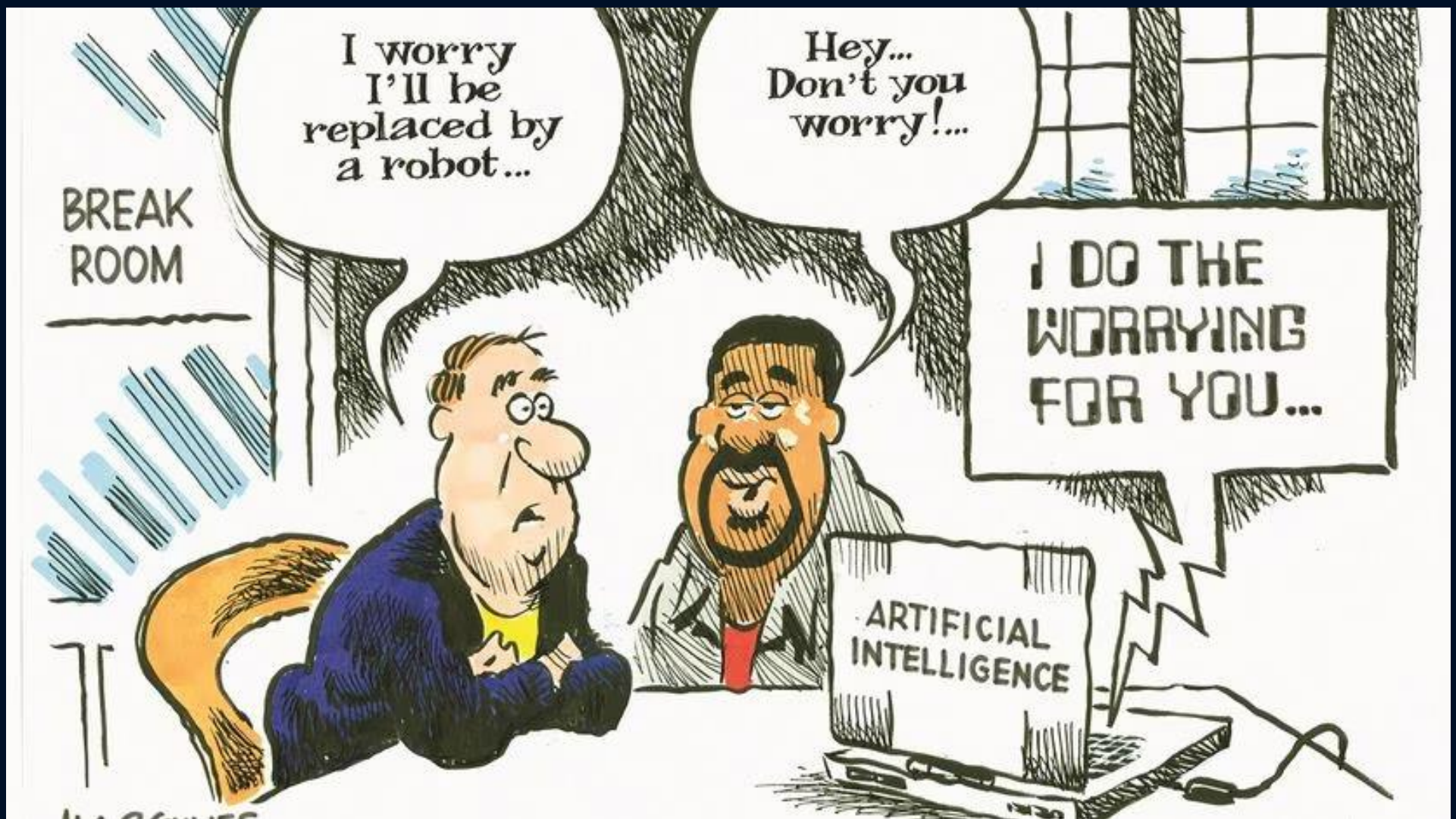
Layoffs

CHAPPAITE  
The Boston Globe



# ... However, many tasks will be made easier by AI

- Communication
- Writing
- Repetitive tasks
- Actions requiring predictive decisions
- Targeted graphic and design
- Simplification
- Education
- Code writing and programming
- Automation
- Image processing
- Proofreading
- Mathematics & logic
- Comprehension
- Data entry
- Data analysis
- Pattern recognition
- Language translation
- Healthcare analysis
- Bookkeeping & accounting
- And much more!



I worry  
I'll be  
replaced by  
a robot...

Hey...  
Don't you  
worry!...

I DO THE  
WORRYING  
FOR YOU...

ARTIFICIAL  
INTELLIGENCE

BREAK  
ROOM

HARGREAVES



# How should we react?

WE HAVE OPTIONS...

# Ignore it and it will go away ... it won't!

- It is entrenched now
- It is growing rapidly
- It is becoming exponentially more powerful than we can imagine
- Many millions of people are contributing to its growth
- Thousands of new AI platforms and programs are being released daily



# Get angry and fight it ... you won't win!

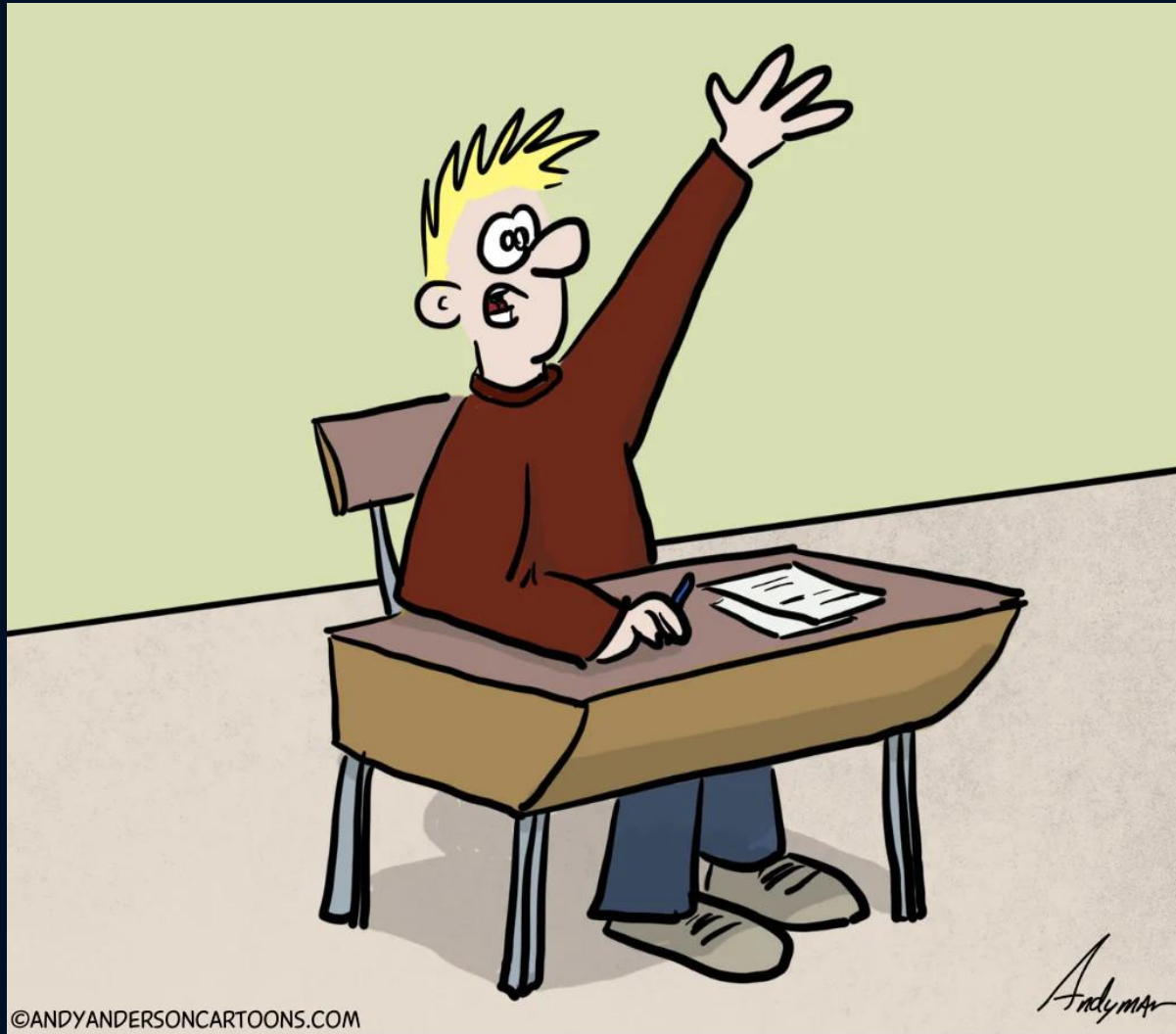
- The AI industry is enormous
- It is growing faster than any previous technology
- If you continue to hold on to traditional methods you will be overtaken and left behind by those utilizing AI



# Learn it and use it ... you will benefit

- It will simplify your difficult tasks
- It will expand your understanding of technology
- It will provide you with solutions quickly and efficiently





©ANDYANDERSONCARTOONS.COM

MRS. ROTHMAN, WILL ANY OF THIS BE  
RELEVANT ONCE AI TAKES OVER?

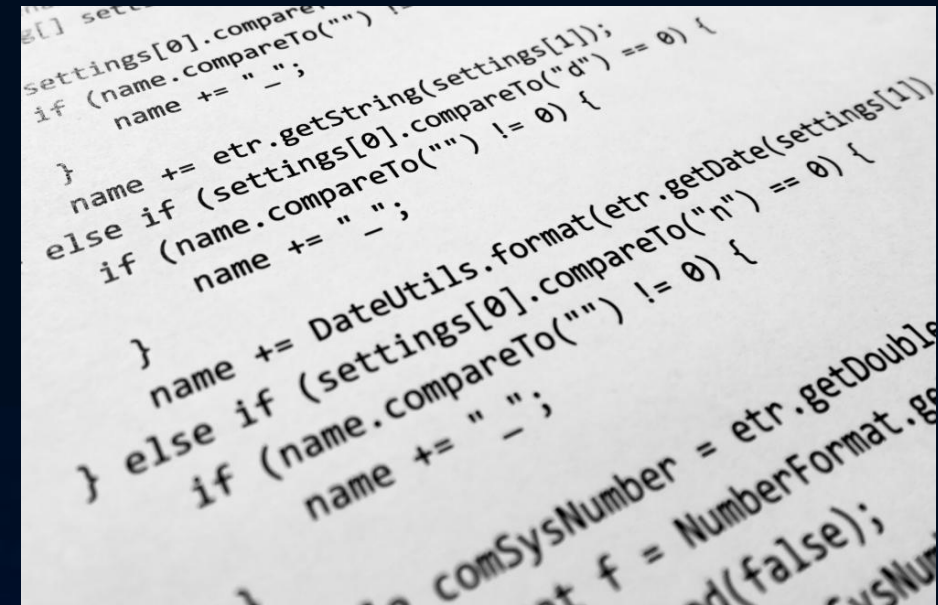
# What has changed?

UP UNTIL RECENTLY ...



# Computer programs (before AI)

- Were generally step-by-step procedures
- One action or command followed by another ...
- With some steps being a redirection by "if then"



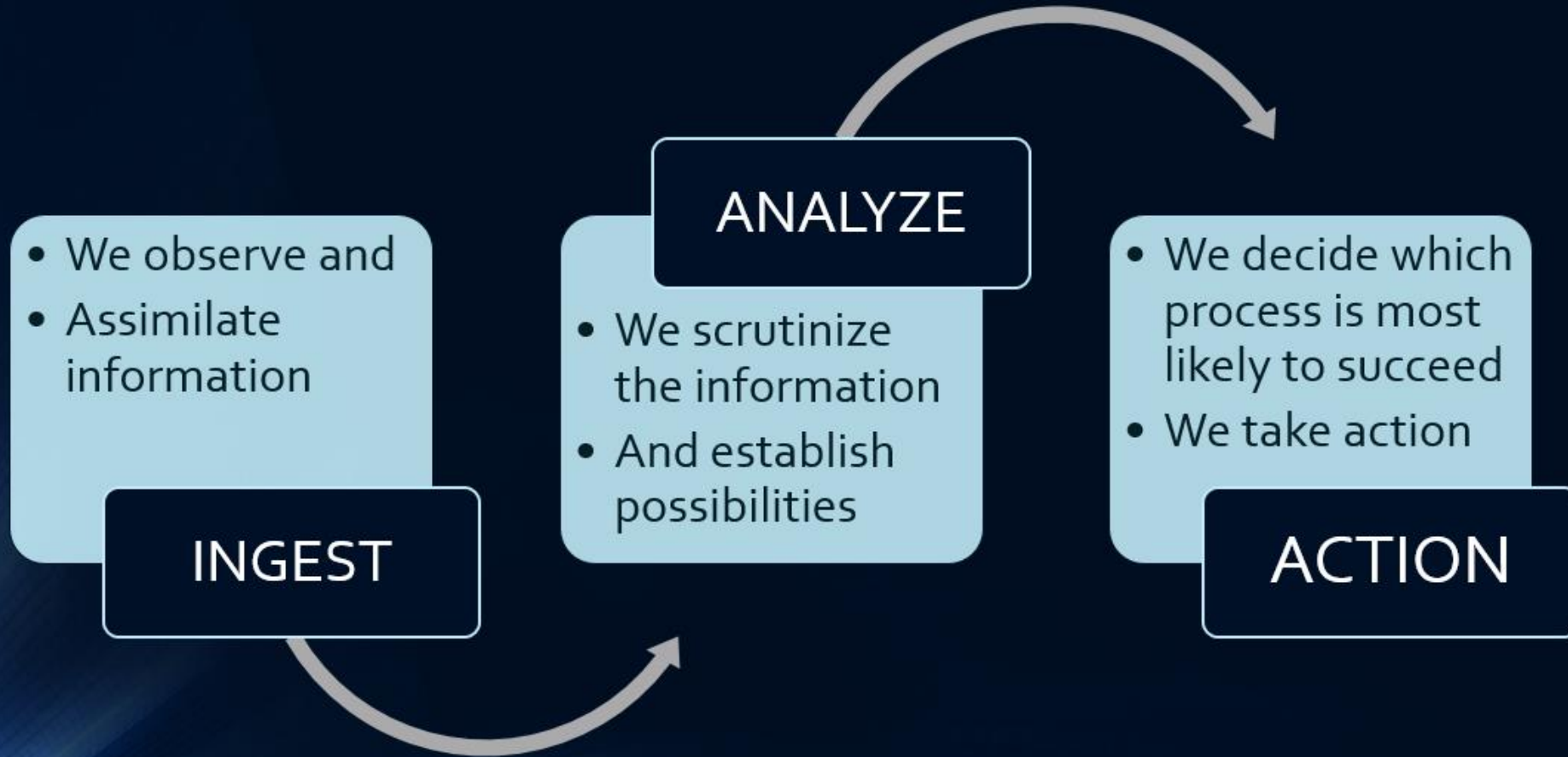
```
settings[0].compareTo("");  
if (name.compareTo("") != 0) {  
    name += " ";  
}  
name += etr.getString(settings[1]);  
else if (settings[0].compareTo("d") == 0) {  
    if (name.compareTo("") != 0) {  
        name += " ";  
    }  
    name += DateUtils.format(etr.getDate(settings[1]));  
} else if (settings[0].compareTo("n") == 0) {  
    if (name.compareTo("") != 0) {  
        name += " ";  
    }  
    comSysNumber = etr.getDouble(settings[1]);  
    f = NumberFormat.getNumberInstance(locale);  
    f.format(comSysNumber);  
}
```

# AI Computer programs

- Ingest large amounts of labeled training data
- They analyze the data for correlations and patterns
- Then uses these patterns to make predictions about future states

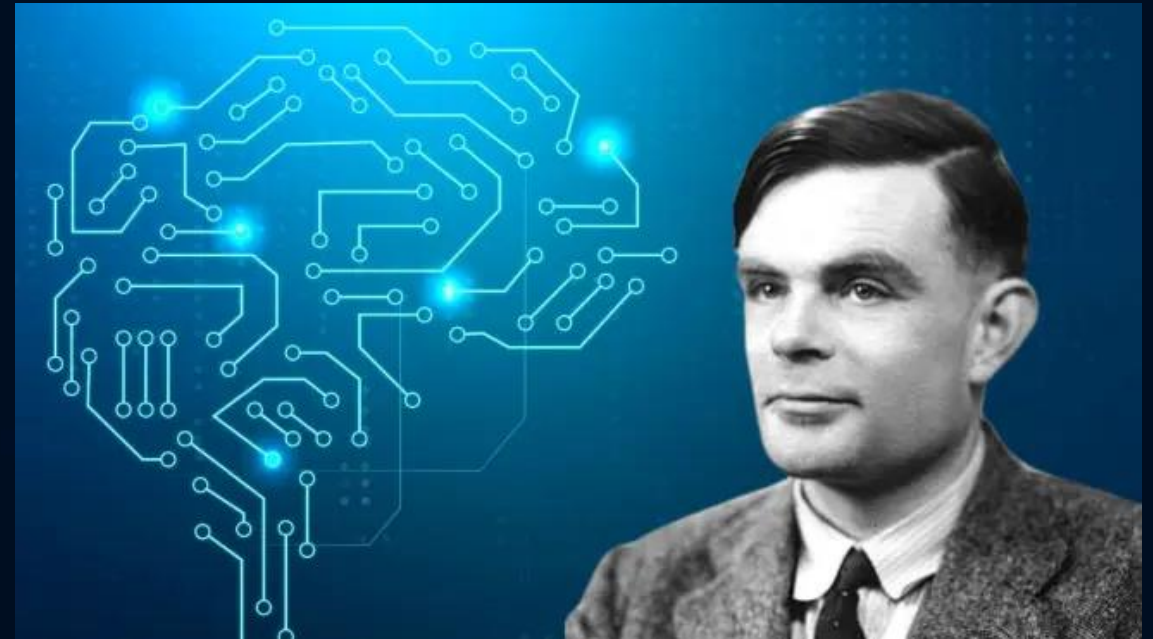


# Humans reason and think in the same way



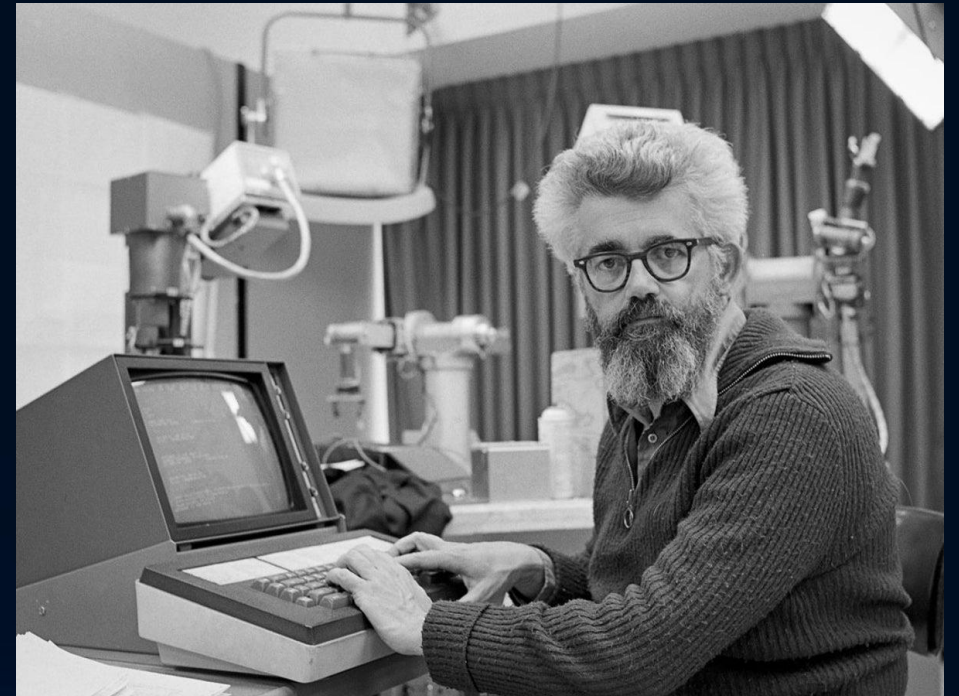
# AI has been developed and introduced slowly ...

- 1942 - The Enigma Code is broken with AI.
- Alan Turing used the observation that each German message contained a known piece of German plaintext at a known point in the message



# The thinking machine...

- 1955 - John McCarthy, the father of AI proposes an idea to design a machine that would be capable of thinking and reasoning like a human



# The AI psychotherapeutic robot ...

- 1964 - Joseph Weizenbaum at the Artificial Intelligence Laboratory builds "Eliza", a psychotherapeutic robot that gives pre-fed responses to the users such that they feel they are talking to someone who understands their problems.



# AI developments started gathering pace...

- 1969 – “Shakey”, the first general-purpose mobile robot is built. It is able to reason with its own actions



# Checkmate!...

- 1997 – “DeepBlue”, a chess-playing computer developed by IBM beat the world chess champion – Garry Kasparov. This left people wondering about how machines could easily outsmart humans in a variety of tasks.





# 21<sup>st</sup> Century AI

- 2008 – “Siri” and voice recognition released in the iPhone
- 2014 – “Alexa”, the virtual assistant Artificial Intelligence system is available on smartwatches, car monitors, speakers, TV, and various other platforms.



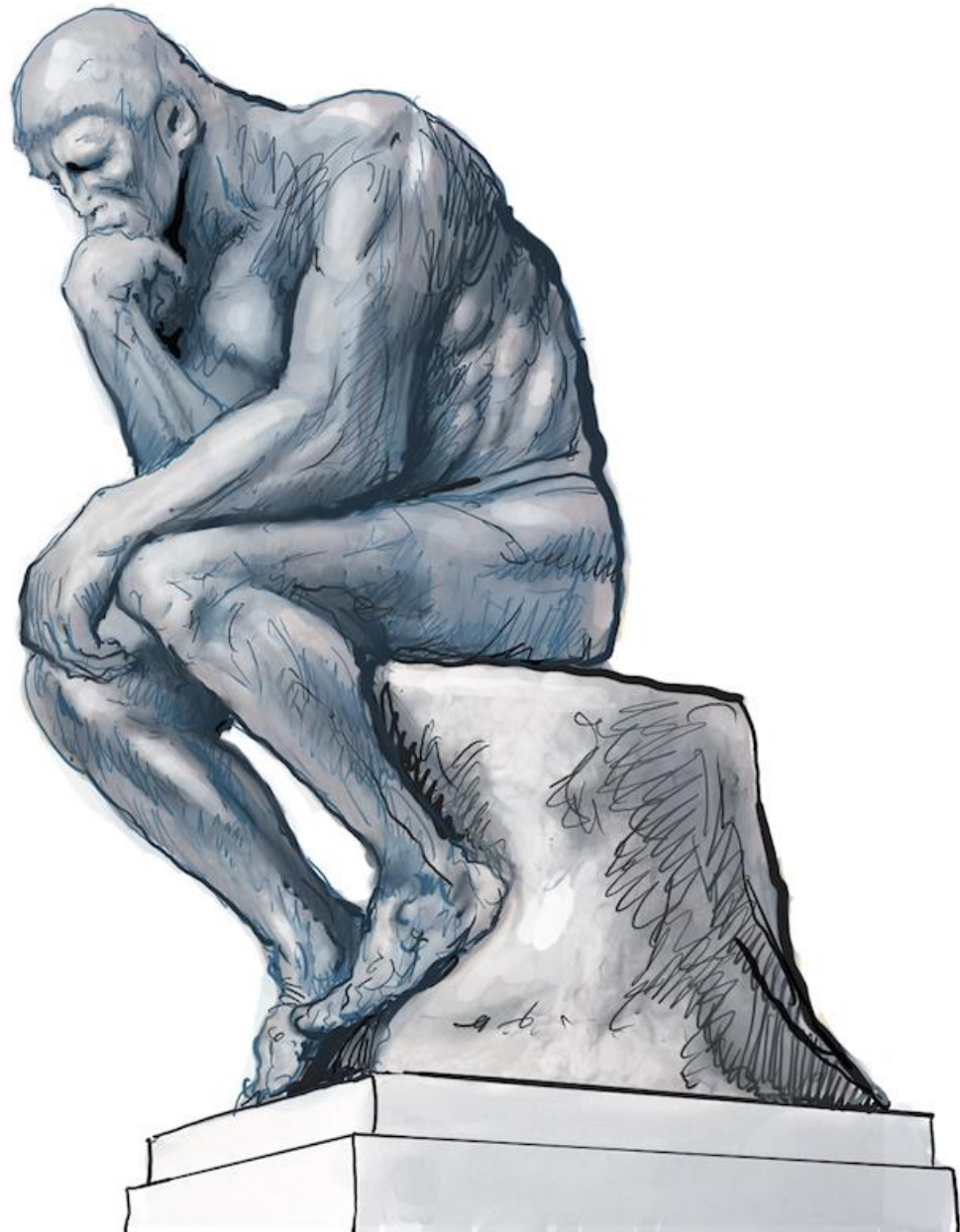
... and then on 30 November 2022



ChatGPT

- ChatGPT is launched!
- The impact of ChatGPT on the IT world is immense. It has revolutionized the way people interact with computers, making them more intuitive and user-friendly.
- It has launched a global AI development frenzy the likes of which we have never before encountered

HE  
OBVIOUSLY  
HASN'T HEARD  
OF ChatGPT



# How does AI work?

IT FOCUSES ON COGNITIVE SKILLS ...

# Learning

- AI acquires data and creates rules for how to turn it into actionable information.
- The rules, which are called algorithms, provide computing devices with step-by-step instructions for how to complete a specific task



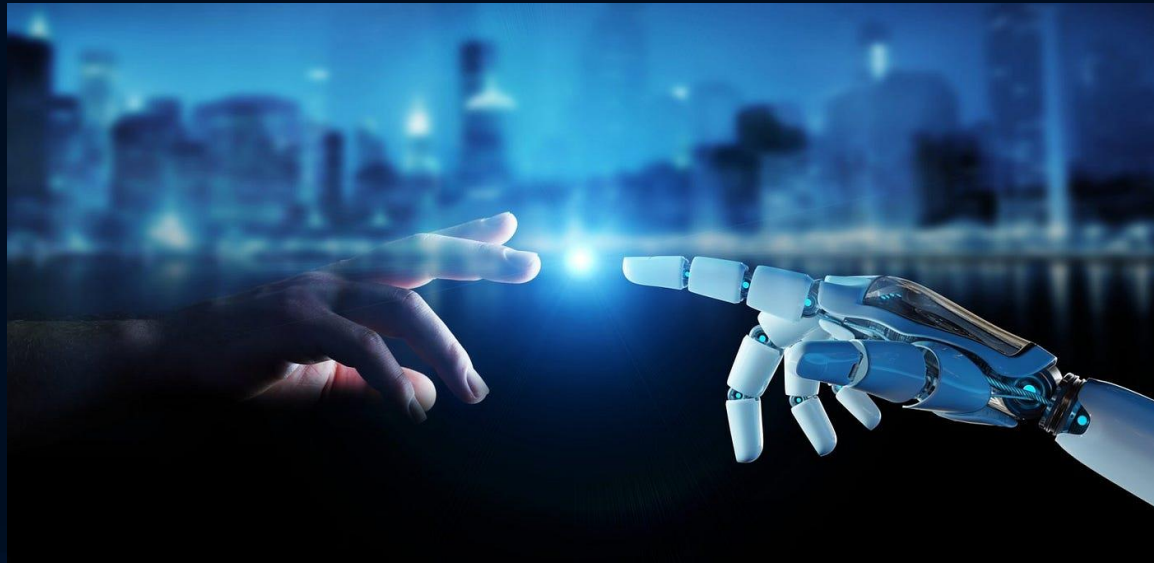
# Reasoning

- AI programming focuses on choosing the right algorithm to reach a desired outcome.



# Self-Correction

- AI continually fine-tunes algorithms and ensures that they provide the most accurate results possible.



# Creativity

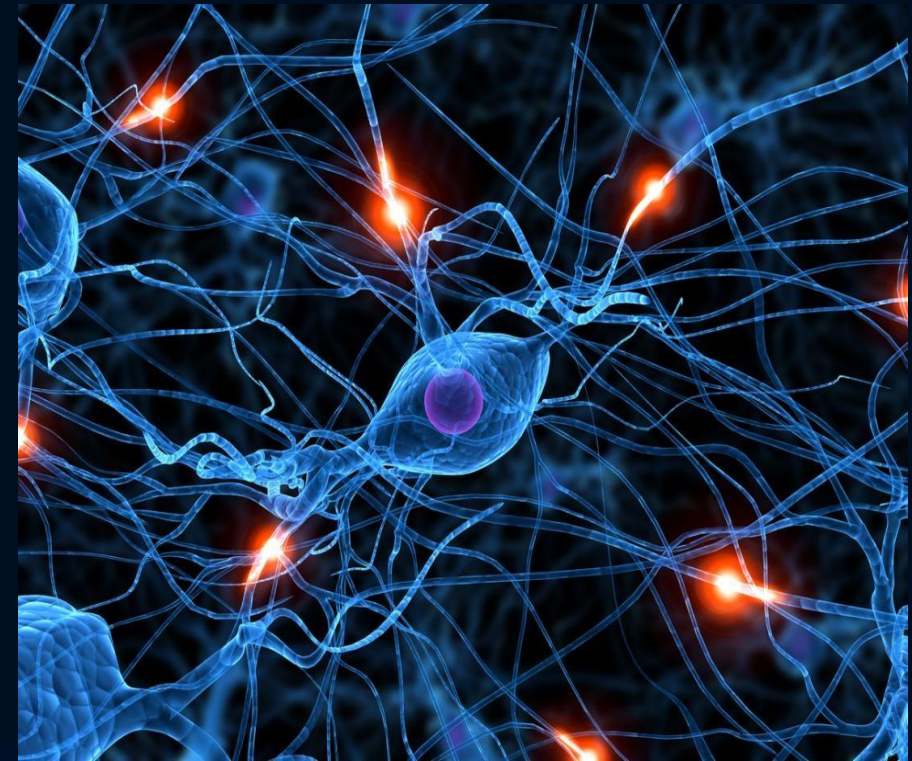
- AI uses neural networks, rules-based systems, statistical methods and other AI techniques to generate new images, new text, new music and new ideas.





# What is a Neural Network?

- It is a method in artificial intelligence that teaches computers to process data in a way that is inspired by the human brain.
- It is a type of machine learning process, called deep learning, that uses interconnected nodes or neurons in a layered structure that resembles the human brain.
- It creates an adaptive system that computers use to learn from their mistakes and improve continuously.

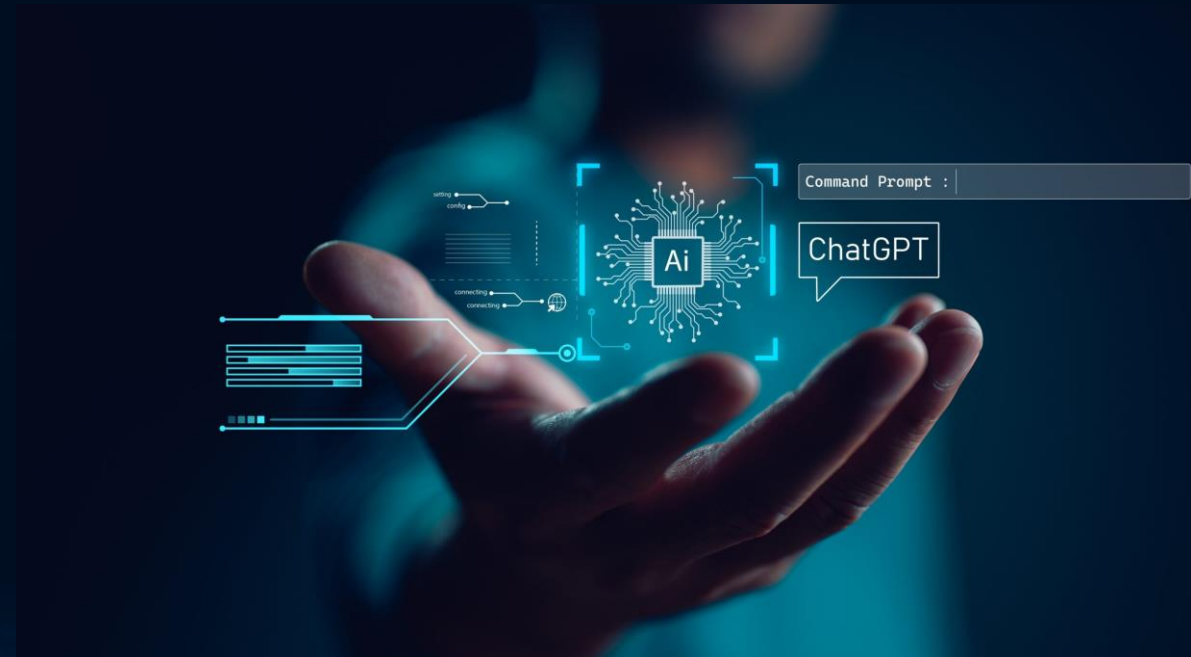


# ChatGPT

THE AI TOOL THAT CHANGED THE WORLD

# What does ChatGPT stand for?

- Chat GPT stands for **Chat Generative Pre-Trained Transformer** and was developed by an AI research company called "Open AI"



LINK

# How does ChatGPT work?

- It uses a large language model that checks for the probability of what words might come next in sequence
- It has a deep learning algorithm — a type of transformer model in which a neural network learns context about any language pattern
- It doesn't "know" what it's saying, but it does know what symbols (words) are likely to come after one another based on the data set it was trained on.
- It uses a data set learned from a large portion of the internet. From there, humans give feedback on the AI's output to confirm whether the words it uses sound natural.



# What can ChatGPT do?

- Write stories
- Compose poetry
- Write website content
- Write advertising copy
- Write letters
- Create original jokes
- Explain complex topics
- Summarize information
- Create tables of data
- Produce bullet pointed summaries
- Write speeches
- Write in the style of virtually any author
- Simplify written data
- Turn data into prose
- Write for a specific age group
- Solve tricky math problems
- Extract data from content
- Proofread and correct
- Translate into virtually any language
- Get relationship advice
- Write plays
- Write music in almost any genre
- Write, debug, and explain program code
- Create content in multiple languages
- Prepare for a job interview
- Write emails
- Write essays on almost any topic
- Be a chat companion
- Write CV's and cover letters
- ...and much more

AWESOME! CHATGPT IS A REAL  
WORKHORSE. NOW WE'VE GOT EVEN  
MORE TIME FOR MEETINGS!



# Some facts about ChatGPT

- ChatGPT was used by more than 10 million users within 5 days of its release
- ChatGPT analyzed more than 570 GB of text on the Internet to gain a deep understanding of the natural human language
- ChatGPT passed the US Medical Licensing Examination, achieving a 90% accuracy in its answers, without any assistance of a human clinician
- ChatGPT passed the Law Bar Examination, achieving it's result in the 90<sup>th</sup> percentile, without any assistance of a human clinician

# Some more facts about ChatGPT

- Nearly 176 billion parameters were used to train ChatGPT
- ChatGPT version 4 is likely to be 40% more accurate and factual than ChatGPT version 3.5
- By June 2023 there were 1.6 billion registered users of ChatGPT (that is 20% of the entire planet's population!)
- Microsoft is the largest investor in ChatGPT (OpenAI)
- ChatGPT learns from its interactions with users and improve its responses over time



# ChatGPT takes a mighty leap ...

- ChatGPT have just opened their system to support Plugins
- Plugins are tools specifically designed to utilize the power and structure of a host entity, with safety as a core principle, that helps access up-to-date information or use third-party services
- This means that ChatGPT is no longer restricted to the data it was given in its creation phase – it now has access to the whole of human knowledge
- It also means it can now perform tasks on information stored on your computer, in the cloud and connect you with an infinite array of third-party services

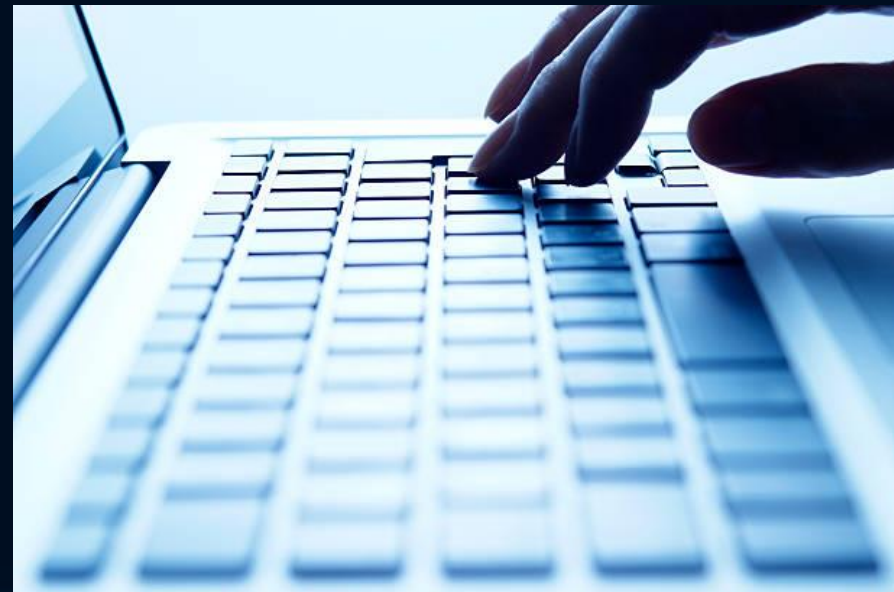


# Prompts

HOW WE INSTRUCT AI

# AI Platforms respond to our instructions

- These instructions are called “prompts”
- The more specific a prompt is, the more appropriate will be the reply



# How to write great AI Prompts

- Start with a clear objective (write an essay, compose a poem, ...)
- Keep it simple (in bullet point form, do not use flowery language, ...)
- Use specific keywords (“determined”, “active”, ...)
- Indicate mood (enthusiastic, encouraging, concerned, ...)
- Specify number of words required (in 300 words, 20-minute, ...)
- Use examples (like a jingle, like a song, ...)
- Determine your audience (for a 5-year old, for engineers ...)
- Indicate the style (gothic, romantic, critical, journalistic...)

## An example ...

- Write about a cat
- Write a 100-word story about a cat
- Write a 100-word story about a cat called “Fluffy”
- Write a 100-word story about a cat called “Fluffy” for a 6-year old
- Write a 100-word story about a cat called “Fluffy” for a 6-year old in the style of Enid Blyton
- Write a 100-word story about a cat called “Fluffy” who loves playing with a ball of wool for a 6-year old girl called Mary in the style of Enid Blyton



# WRITE ABOUT A CAT

Write a 100-word story about a cat

In a quiet village, a mysterious cat named Luna roamed the moonlit streets. With fur as dark as the night sky, she glided through the shadows, leaving whispers of magic in her wake. Luna's eyes sparkled like distant stars, enchanting all who dared to gaze upon her. No one knew where she came from or how she acquired her ethereal grace. Some believed she was a celestial visitor, while others thought she was a guardian spirit. Regardless, Luna bestowed her gentle presence upon the village, bringing comfort and wonder to all, her enigmatic allure forever woven into their hearts.

# WRITE ABOUT A CAT

Write a 100-word story about a cat called "Fluffy" who loves playing with a ball of wool for a 6-year old girl called Mary in the style of Enid Blyton

Once upon a time, in a quaint little cottage, lived a mischievous cat called Fluffy, and her dearest friend, a sweet 6-year old girl named Mary. Fluffy's days were filled with joy as she frolicked in the garden, but her heart soared when Mary appeared, carrying a ball of wool. Together, they danced and twirled, playing delightful games of catch and chase. Oh, the laughter that echoed through the cottage as Fluffy's tiny paws batted at the wool! Mary and Fluffy shared a bond so special that their adventures became the stuff of legends, enchanting all who witnessed their magical friendship.

## Key phrases for your prompt might include:

- Extract email addresses from – [insert the text that contains the addresses]
- This will produce a list of just the email addresses (with no duplicates)
- Make a table of European countries, their population, capital and land area
- This will produce a table with 4 columns with the data you requested
- Write code in C++ to find the sum of 5 digits and then divide by a prime number
- This will produce code in C++ that does exactly what you asked for



## More key phrases for your prompt might be:

- Write a bullet point summary of NZ's Resource Management Act
- This will produce a bullet point summary as requested
- Write a song about Rugby and include the chords
- This will write an original song about Rugby with chords in the right place
- Explain the difference between butter and margarine
- This will give you the detailed explanation you requested



# Ownership

AI & COPYRIGHT

# Words, artwork etc. created using AI ...

- ... cannot be Copyrighted!
- A work of art created by artificial intelligence without any human input cannot be copyrighted under U.S. law, a U.S. court in Washington, D.C., has ruled (August 20, 2023)
- Only works with human authors can receive copyrights, U.S. District Judge Beryl Howell said on Friday, affirming the Copyright Office's rejection of an application
- Creative work made by artificial intelligence is ineligible for copyright



# Mixed Media

OTHER AI PLATFORMS

# AI Platforms are now readily available to ...

- Write words, poems, stories, essays, journalism ...
- Create photographs
- Create pictures and all forms of artwork
- Synthesize voices
- Convert sketches to photos and artworks
- Create original music
- Repair, restore, colourise and enhance photos
- Animate photos into videos
- Write program code, solve mathematics ... and much more

# Image Editors

AI PLATFORMS THAT AFFECT CHANGES TO PHOTOS

# GFP-GAN

## IMAGE EDITING

Uses AI to sharpen and bring detail to very blurry and low resolution images

LINK



## Photo restoration with GFP-GAN

*Restore old photos using our photo restoration application, built with Baseten and powered by the [GFP-GAN](#) model.*

Upload the photo you want to retouch, then click the "Restore photo" button. The restored image will display on the right for you to download.

If you don't have a photo to restore, choose a photo from the gallery below.

Choose file...

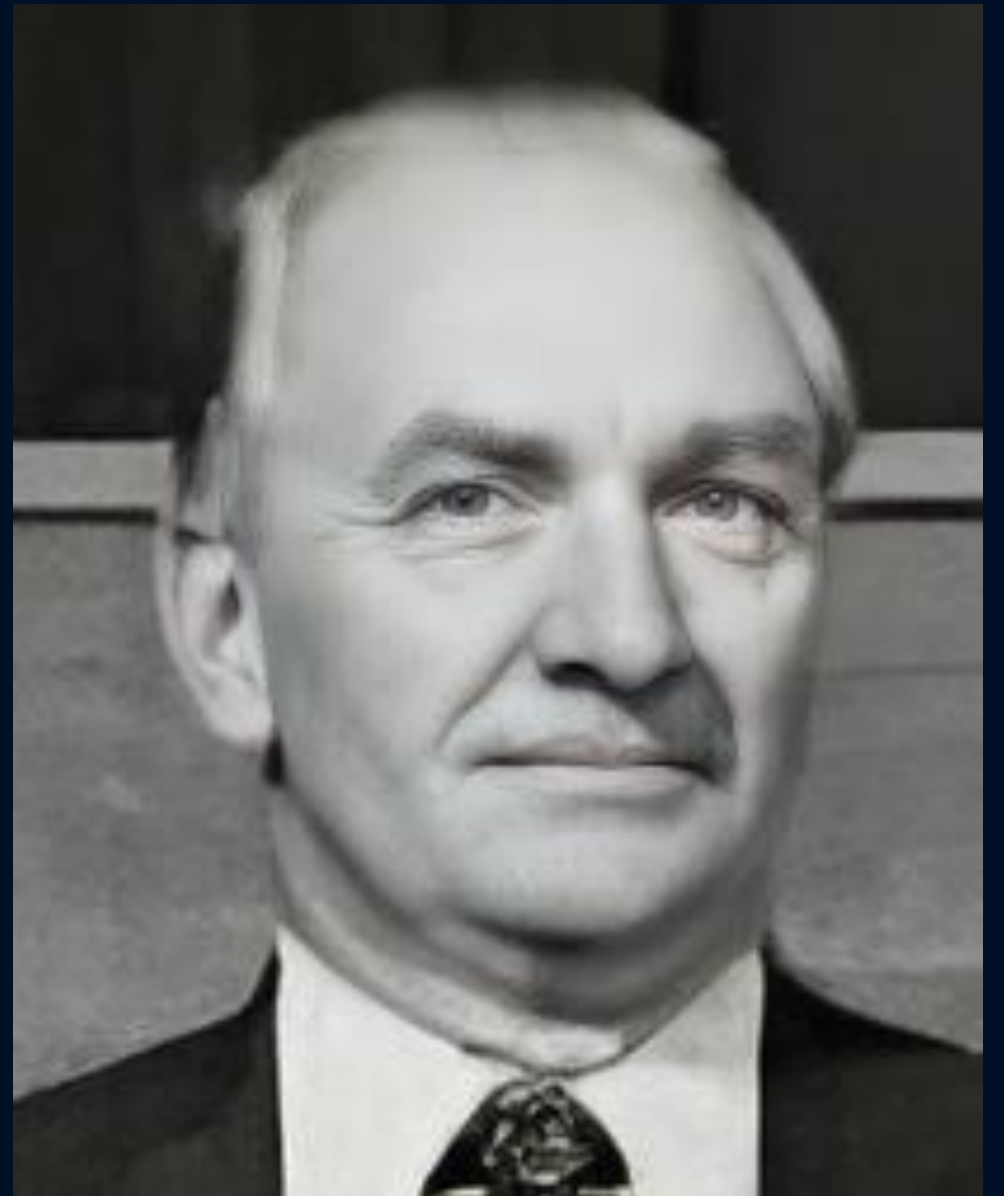


Restore photo

Original image

Restored image





# MY HERITAGE COLORIZE

## IMAGE EDITING

Uses AI to turn black and white photographs into colour photos

LINK


See your heritage in color

Upload black & white or faded color photos and be amazed by the results


Upload photo

OR DRAG AND DROP

COLORIZE




RESTORE COLORS **NEW**



Colorize your black & white photos using the world's best deep learning technology

Restore the colors in faded color photos with the world's best color restoration technology

Licensed by MyHeritage from  DeepOmify, created by Jason Antic and Dana Kelley.



# MY HERITAGE COLORIZE

## IMAGE EDITING

Uses AI to fully restore old images that have gone “red”

LINK


See your heritage in color

Upload black & white or faded color photos and be amazed by the results


Upload photo

OR DRAG AND DROP

COLORIZE




RESTORE COLORS **NEW**



Colorize your black & white photos using the world's best deep learning technology

Restore the colors in faded color photos with the world's best color restoration technology

Licensed by MyHeritage from  D-ID, created by Jason Antic and Dana Kelley.

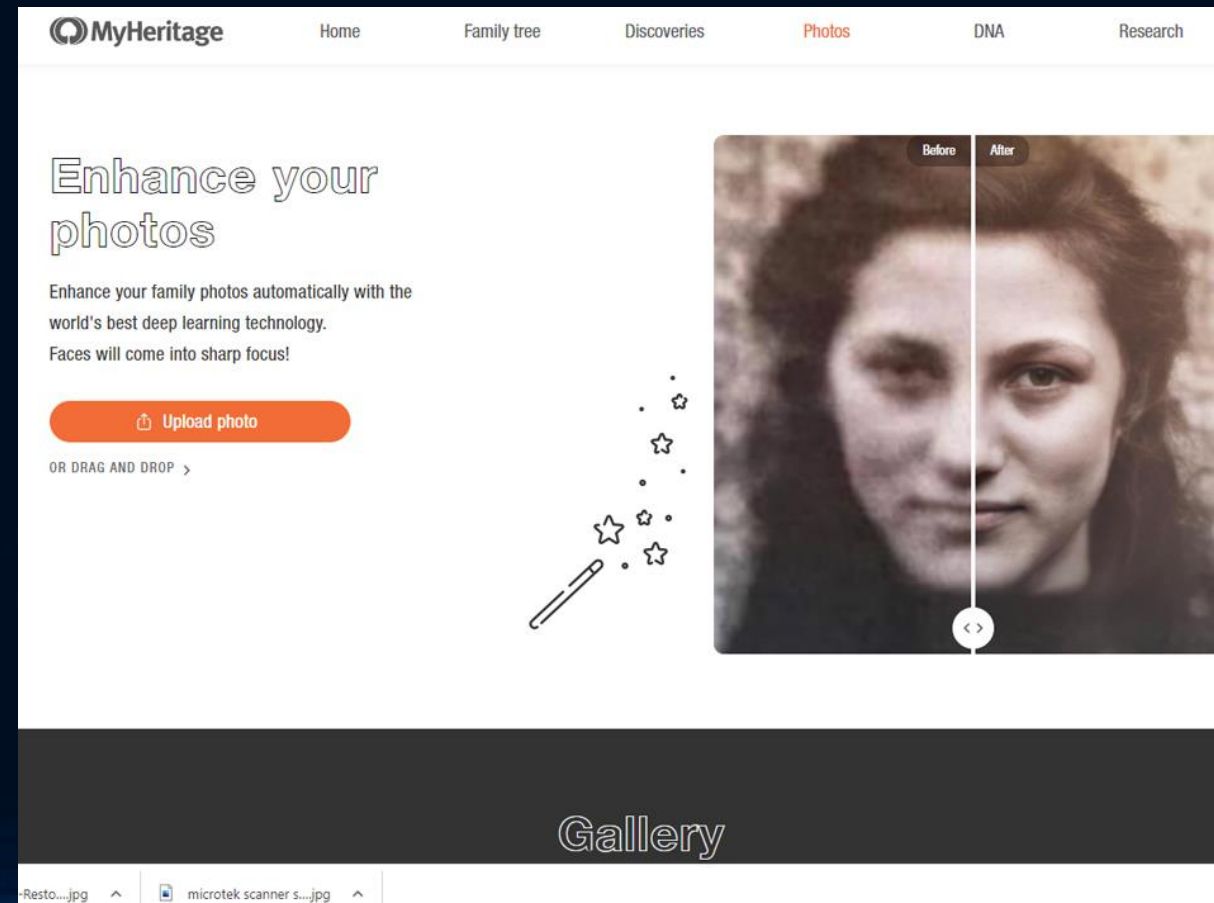


# MY HERITAGE ENHANCE & REPAIR

## IMAGE EDITING

Uses AI to fully restore damaged photos

LINK






# REMOVE.BG

## IMAGE EDITING

Uses AI to automatically identify the background in an image, then removes it and allows for a replacement background if required

LINK




## Remove Image Background

100% Automatically and **Free**

[Upload Image](#)

or drop a file,  
paste image or [URL](#)

No image?  
Try one of these:



By uploading an image or URL you agree to our [Terms of Service](#). This site is protected by reCAPTCHA and its [Privacy Policy](#) and [Terms of Service](#) apply.





# CLEANUP.PICTURES

## IMAGE EDITING

Uses AI to remove any unwanted object in an image and then automatically and accurately fills in the detail that has been removed

[LINK](#)

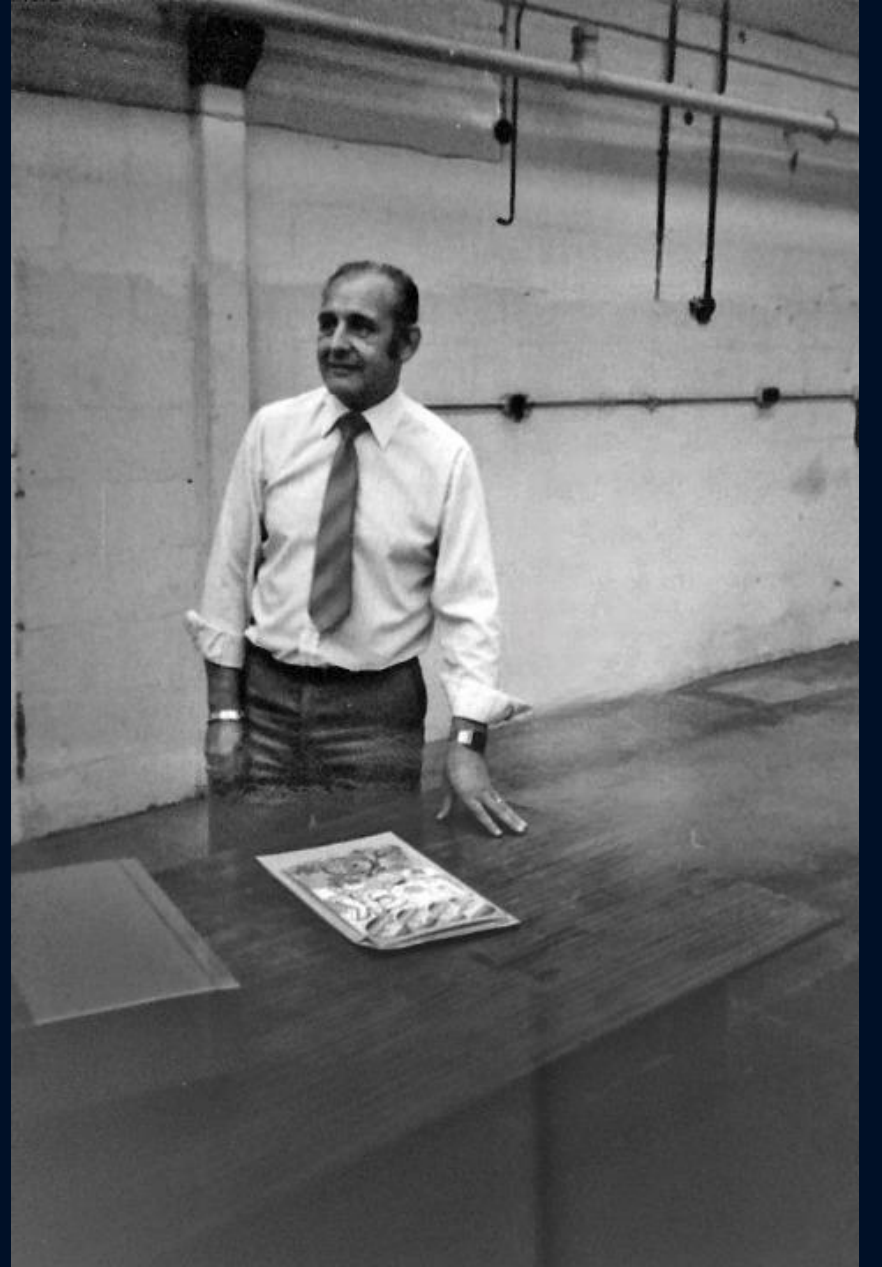
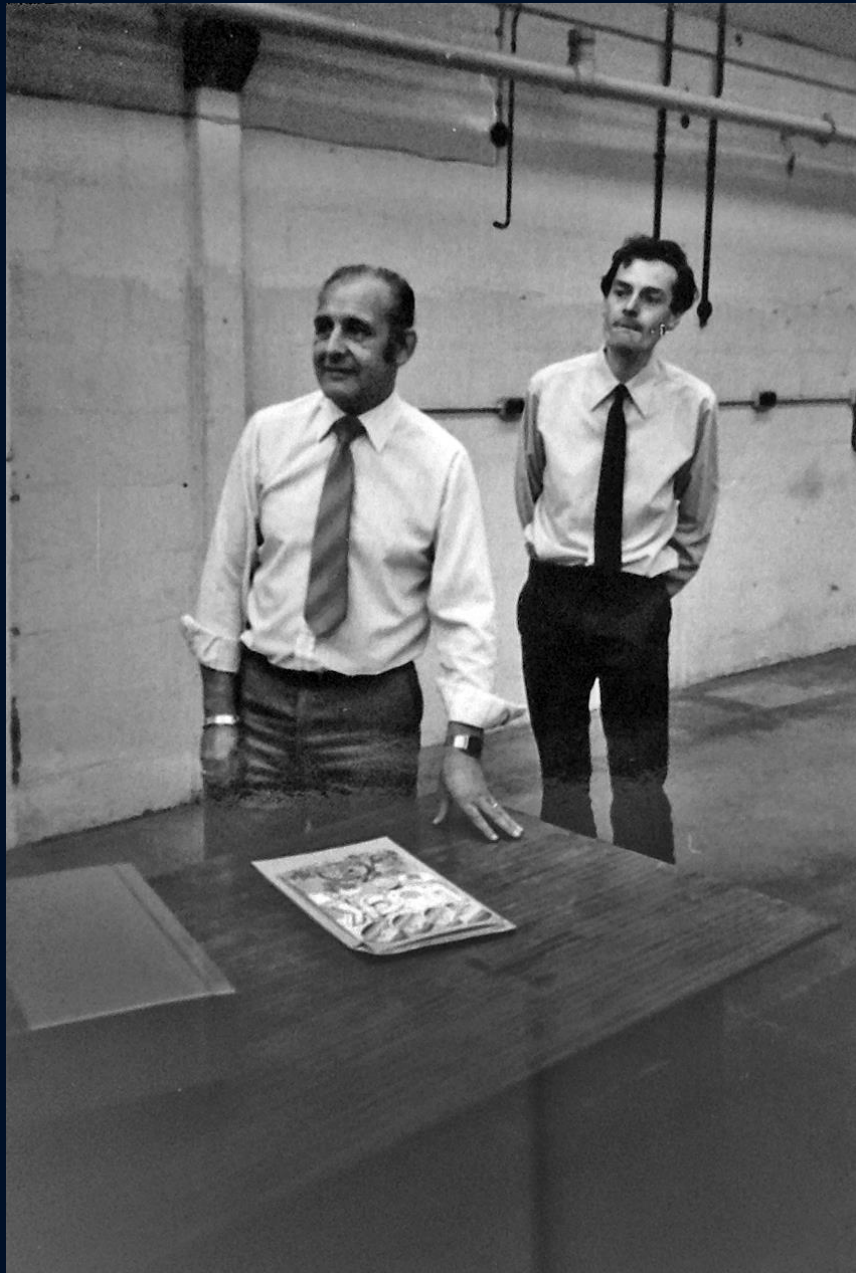
Remove any unwanted **object, defect, people** or **text** from your pictures in seconds



Click here or drag an image file

↓ Try with an example





# Image Creators

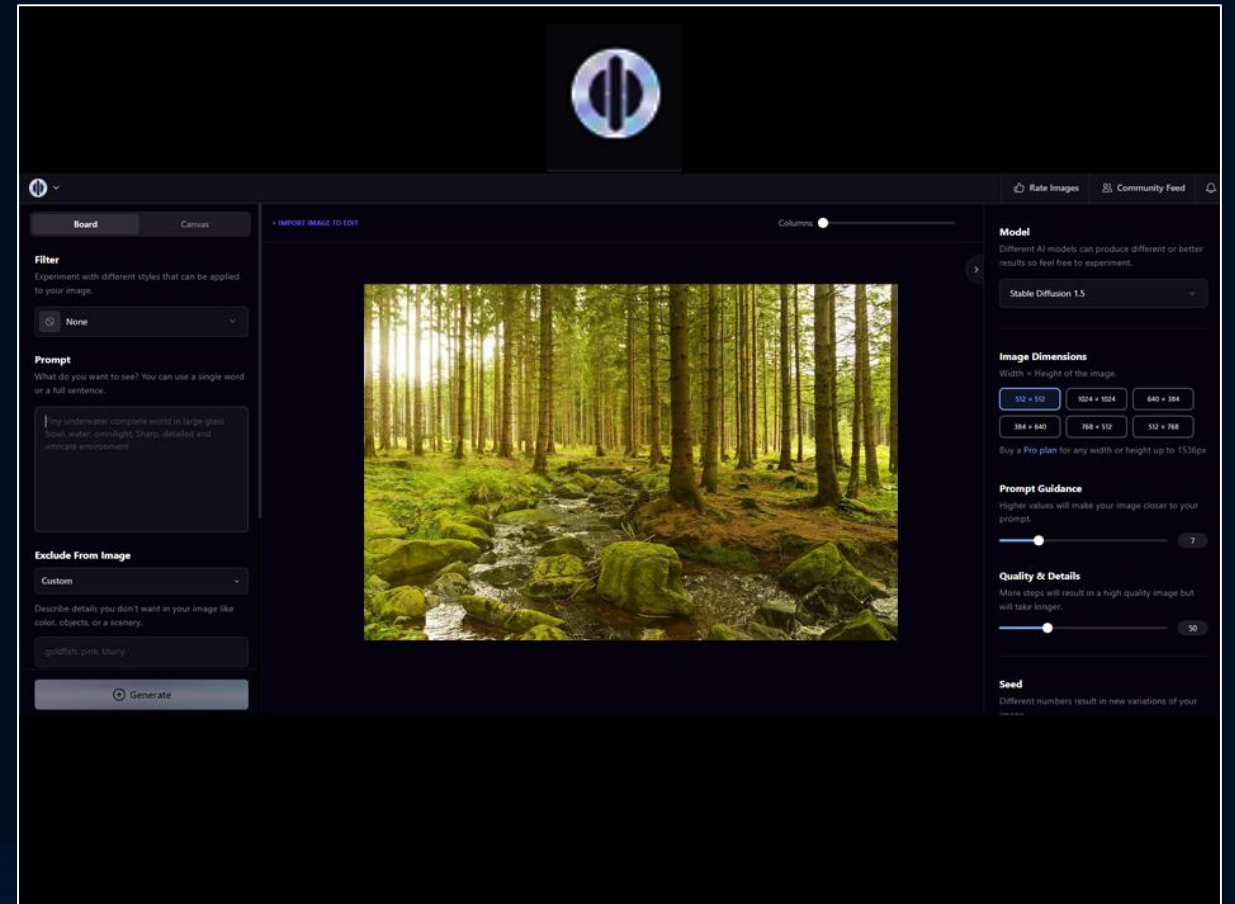
AI PLATFORMS THAT CREATE ORIGINAL IMAGES

# PLAYGROUND

## IMAGE CREATION

Uses AI to create images from a verbal description (prompt)

LINK



A photo of an old man  
smoking a pipe sitting on a  
tree stump in a magical forest

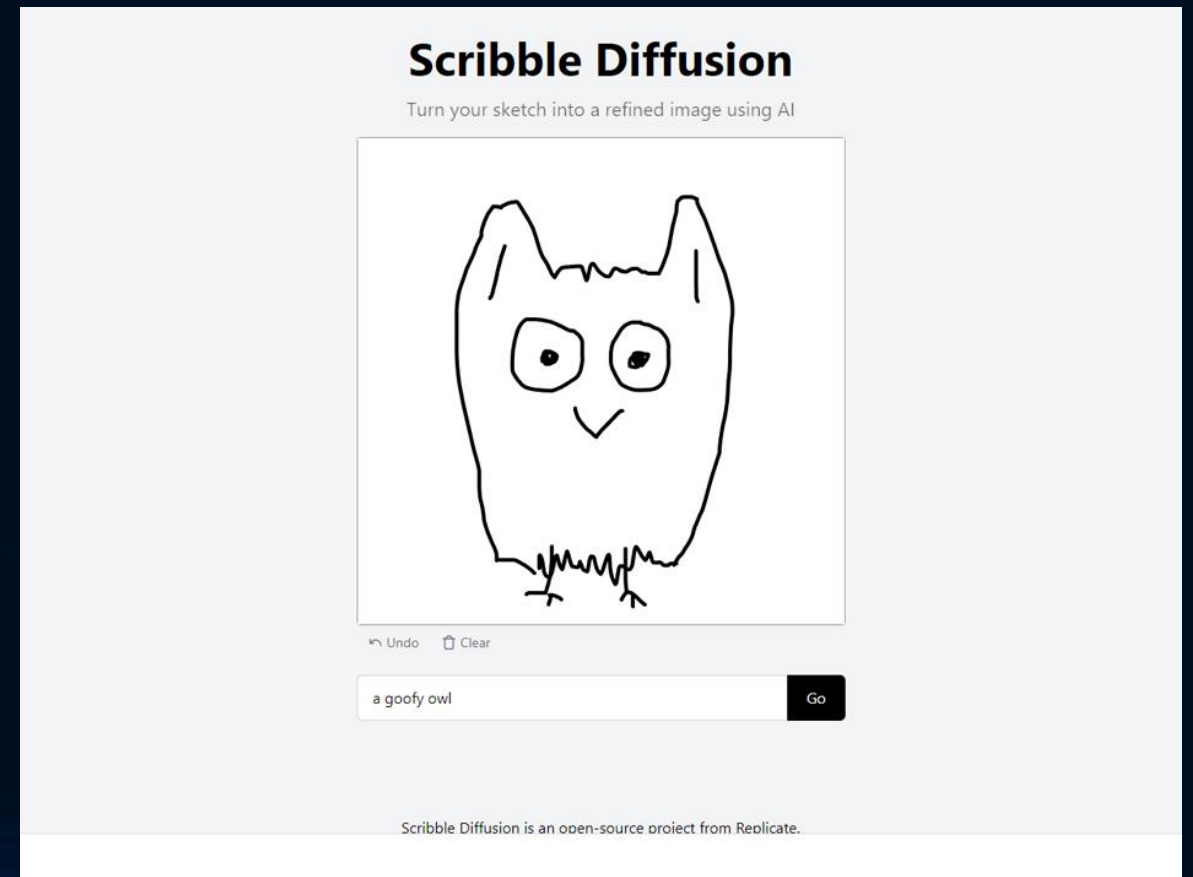


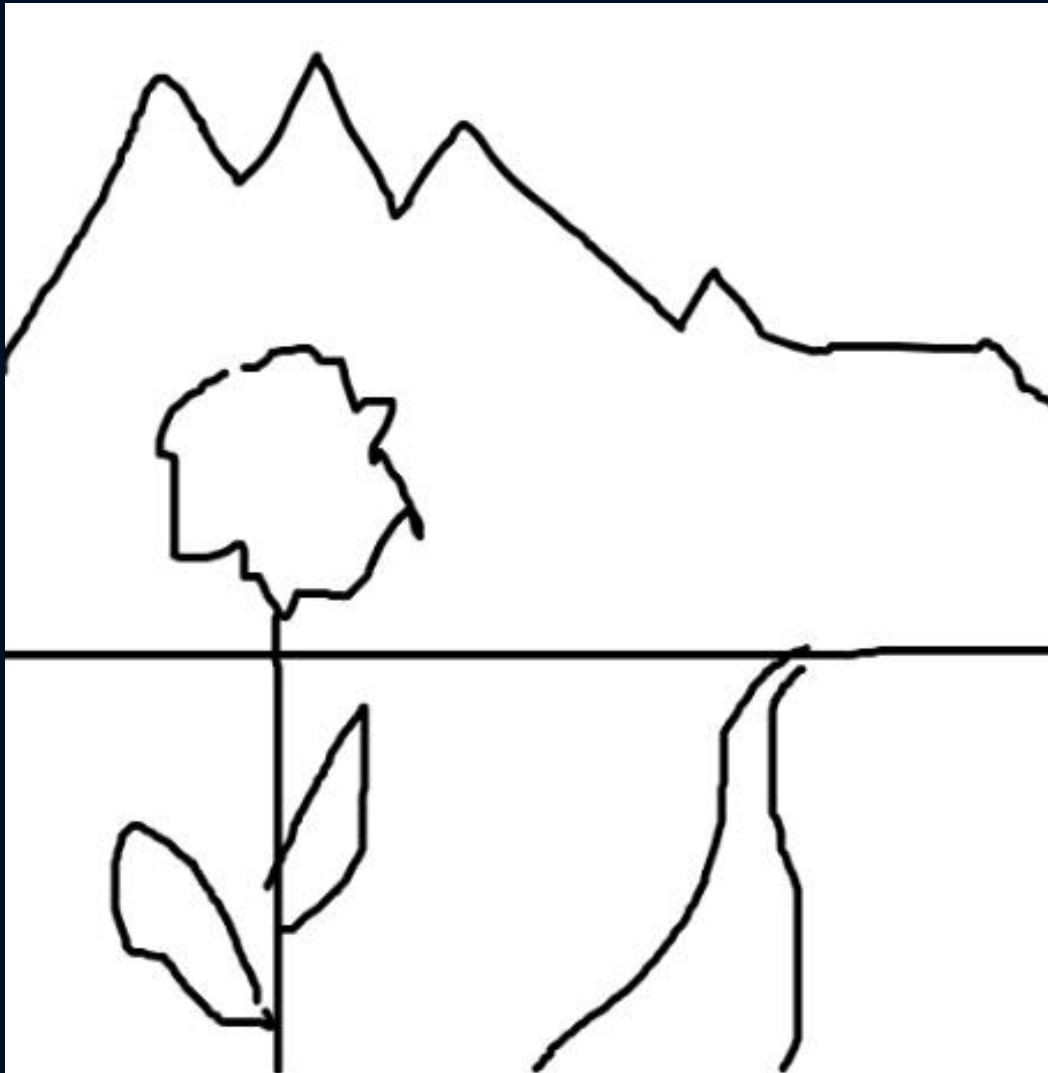
# SCRIBBLE DIFFUSION

## IMAGE CREATION

Uses AI to create images from a rough sketch

LINK





A photo of a long-stem red rose with green fields, a meandering driveway, blue sky with clouds and mountains in the background



# Other Applications

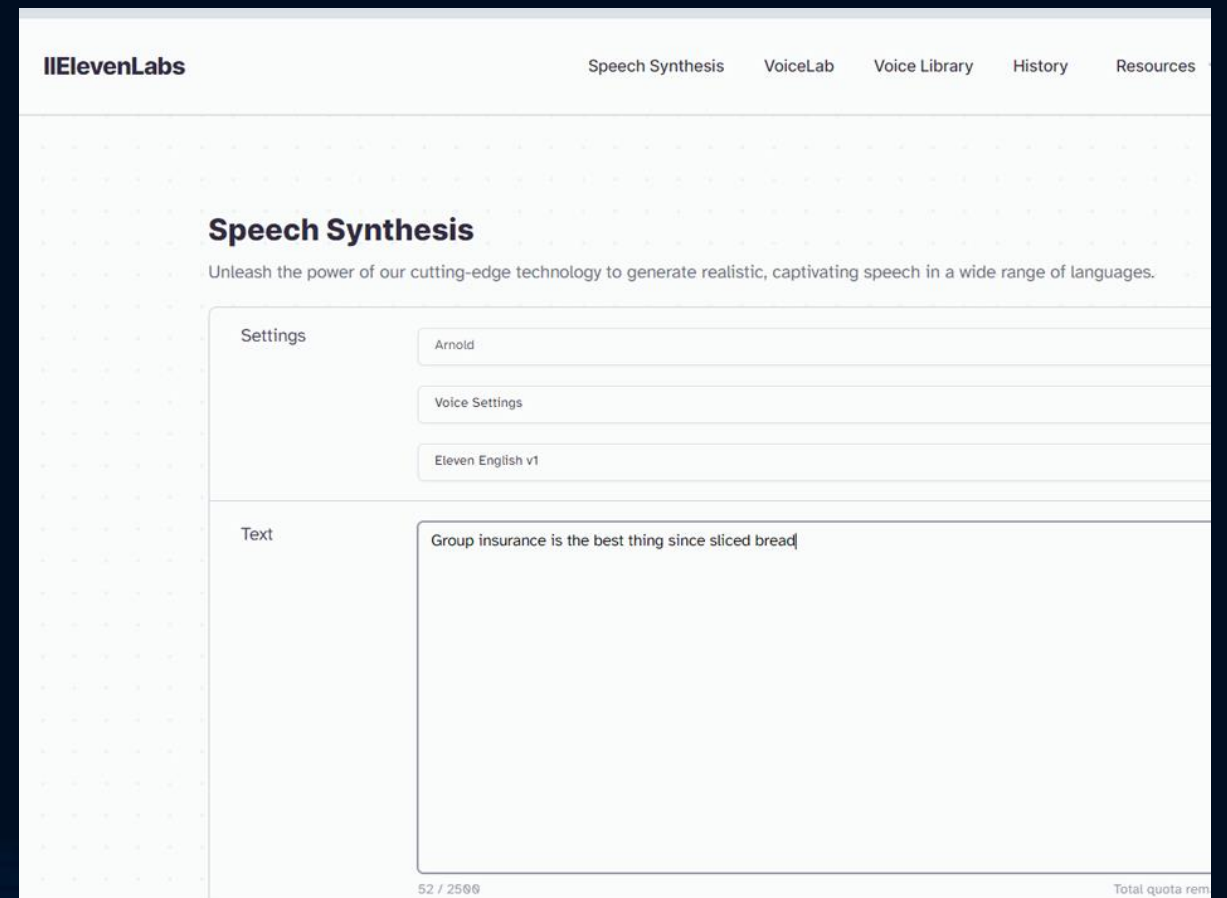
AI PLATFORMS THAT PERFORM A VARIETY OF TASKS

# ELEVEN LABS

## SPEECH SYNTHESIS

Uses AI to create voices and duplicate human voices

LINK



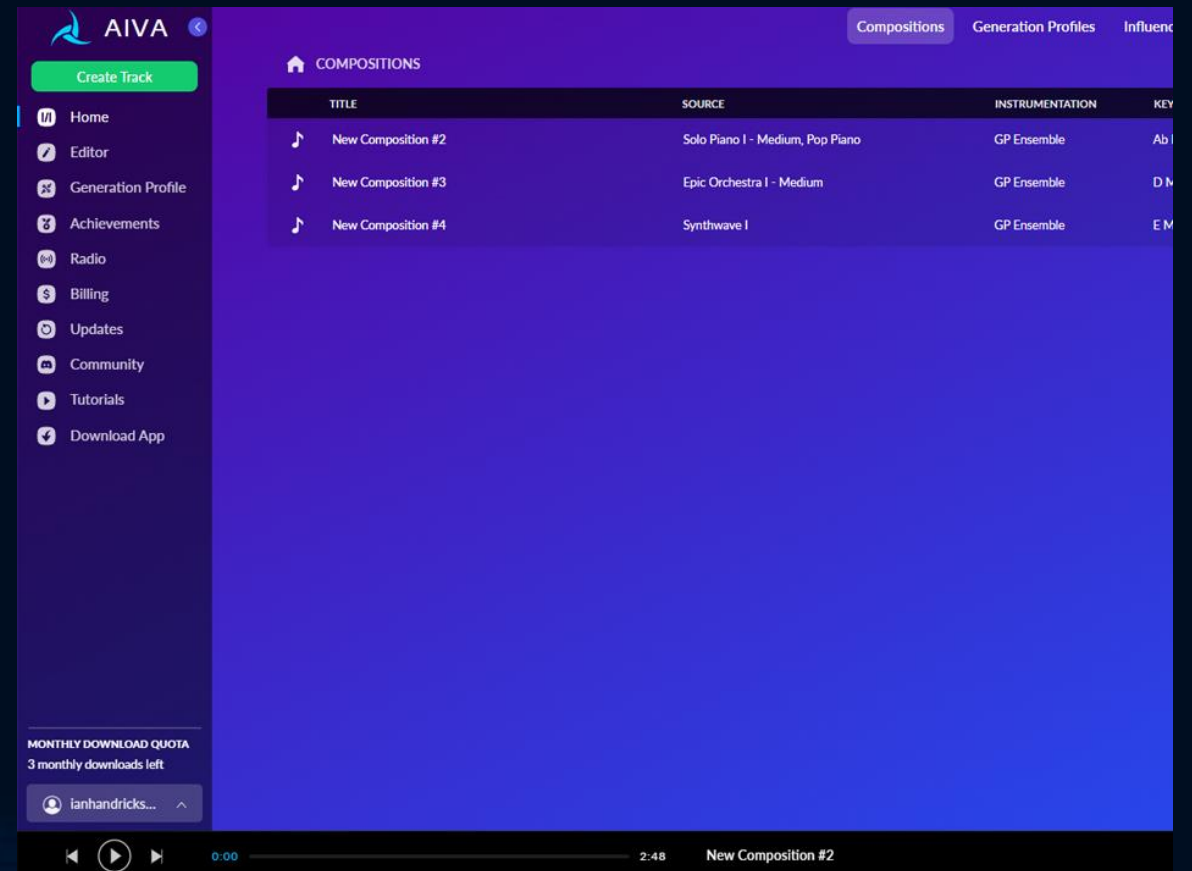
The screenshot shows the ElevenLabs website interface for the Speech Synthesis tool. At the top, the logo "ElevenLabs" is on the left, and navigation links for "Speech Synthesis", "VoiceLab", "Voice Library", "History", and "Resources" are on the right. The main heading is "Speech Synthesis" with a sub-heading: "Unleash the power of our cutting-edge technology to generate realistic, captivating speech in a wide range of languages." Below this, there are two main sections: "Settings" and "Text". The "Settings" section includes three dropdown menus: "Arnold", "Voice Settings", and "Eleven English v1". The "Text" section contains a text input field with the text "Group insurance is the best thing since sliced bread". At the bottom left, it shows "52 / 2500" and at the bottom right, it says "Total quota rem".

# AIVA

## MUSIC CREATION

Uses AI to write music and synthesize full orchestrations

LINK



The screenshot displays the AIVA web application interface. On the left is a dark purple sidebar with navigation options: Home, Editor, Generation Profile, Achievements, Radio, Billing, Updates, Community, Tutorials, and Download App. A green 'Create Track' button is positioned above the sidebar. The main content area has a top navigation bar with 'AIVA' and a back arrow, and tabs for 'Compositions', 'Generation Profiles', and 'Influences'. Below this is a 'COMPOSITIONS' section with a table listing three new compositions. At the bottom, a player interface shows a progress bar at 0:00 and the title 'New Composition #2'. A 'MONTHLY DOWNLOAD QUOTA' section indicates 3 downloads left.

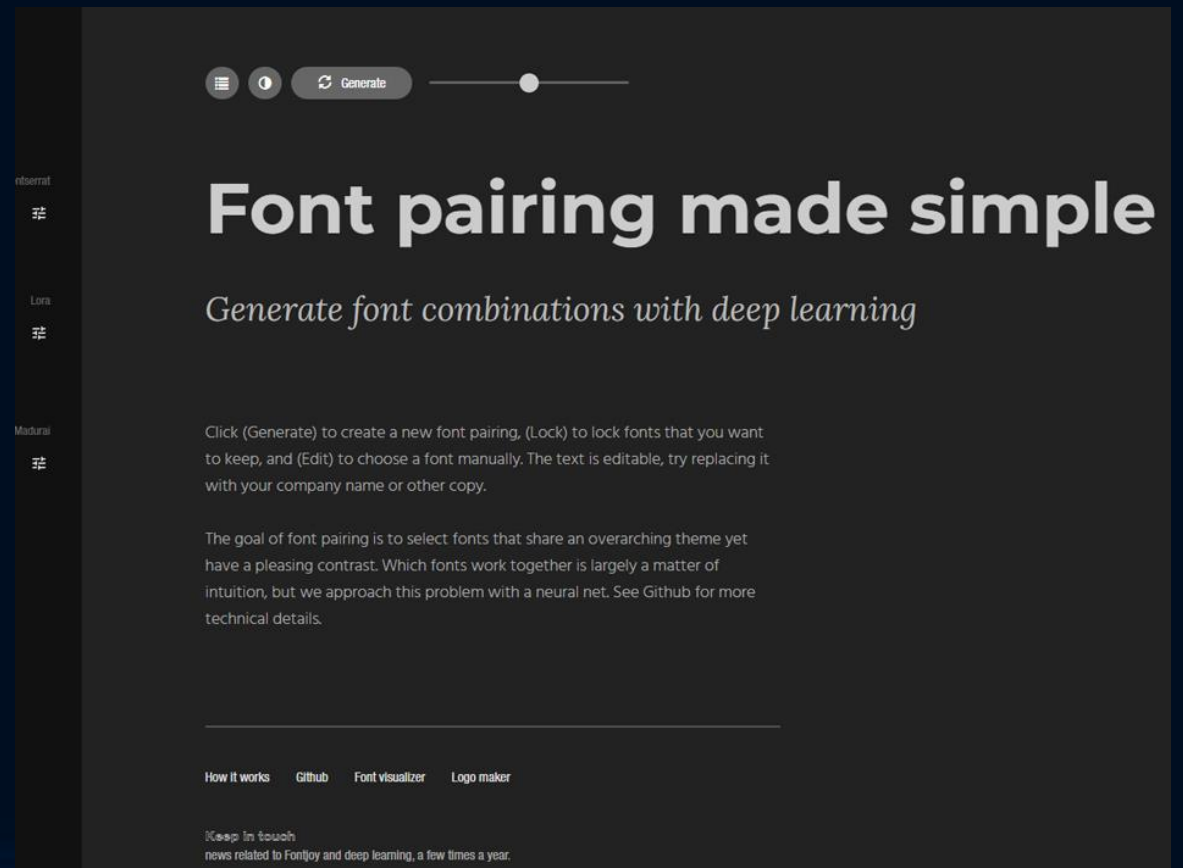
TITLE	SOURCE	INSTRUMENTATION	KEY
New Composition #2	Solo Piano I - Medium, Pop Piano	GP Ensemble	Ab
New Composition #3	Epic Orchestra I - Medium	GP Ensemble	D
New Composition #4	Synthwave I	GP Ensemble	E

# FONTJOY

## AI FONT DETERMINATION

Uses AI to recommend fonts  
and font combinations

LINK

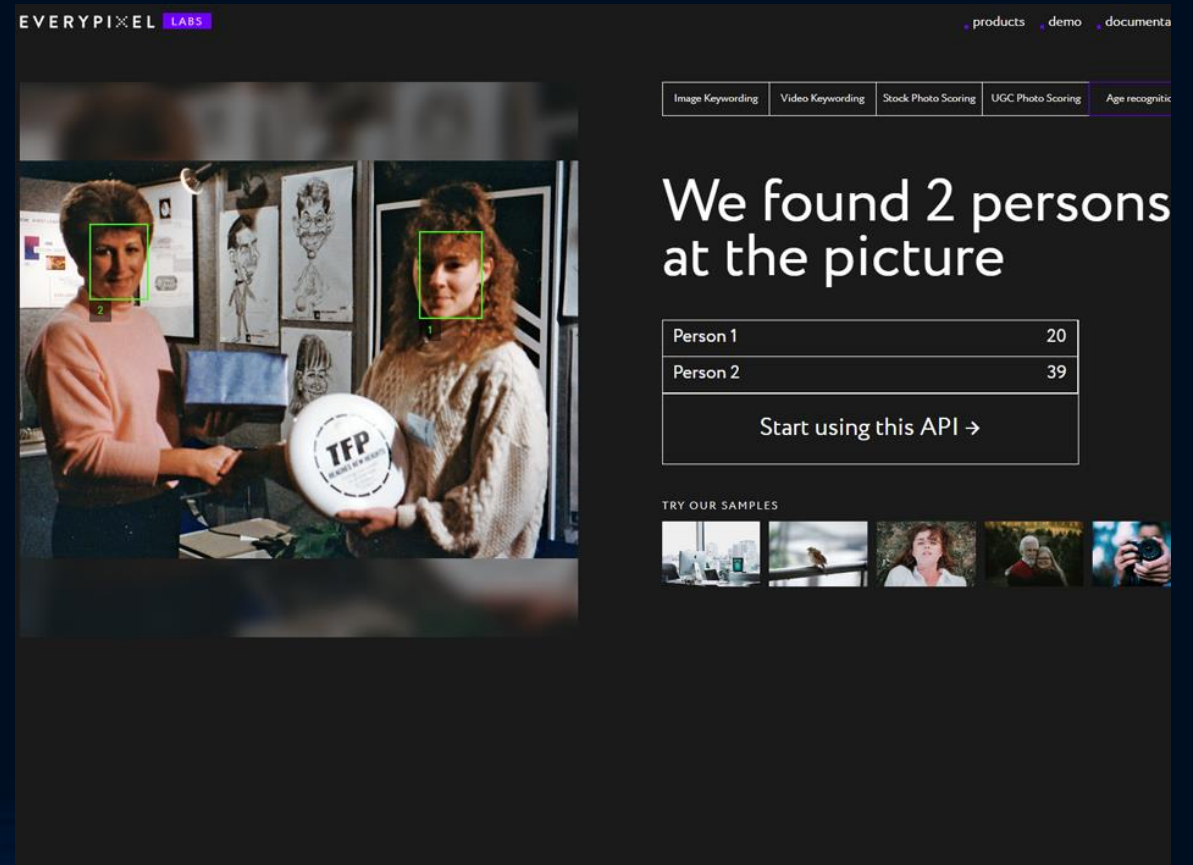


# EVERYPIXEL LABS

## AI PHOTO AGE RECOGNITION

Uses AI to determine the ages of people in a photograph

LINK



The screenshot displays the EveryPixel Labs website interface. At the top, the logo "EVERYPIXEL LABS" is visible on the left, and navigation links for "products", "demo", and "documenta" are on the right. Below the logo, a horizontal menu contains "Image Keywording", "Video Keywording", "Stock Photo Scoring", "UGC Photo Scoring", and "Age recognitio". The main content area features a photograph of two women in a room. The woman on the left is wearing a pink sweater and has a green bounding box around her face with the number "2" below it. The woman on the right is wearing a white sweater and has a green bounding box around her face with the number "1" below it. To the right of the photo, the text "We found 2 persons at the picture" is displayed. Below this, a table lists the detected persons and their ages:

Person 1	20
Person 2	39

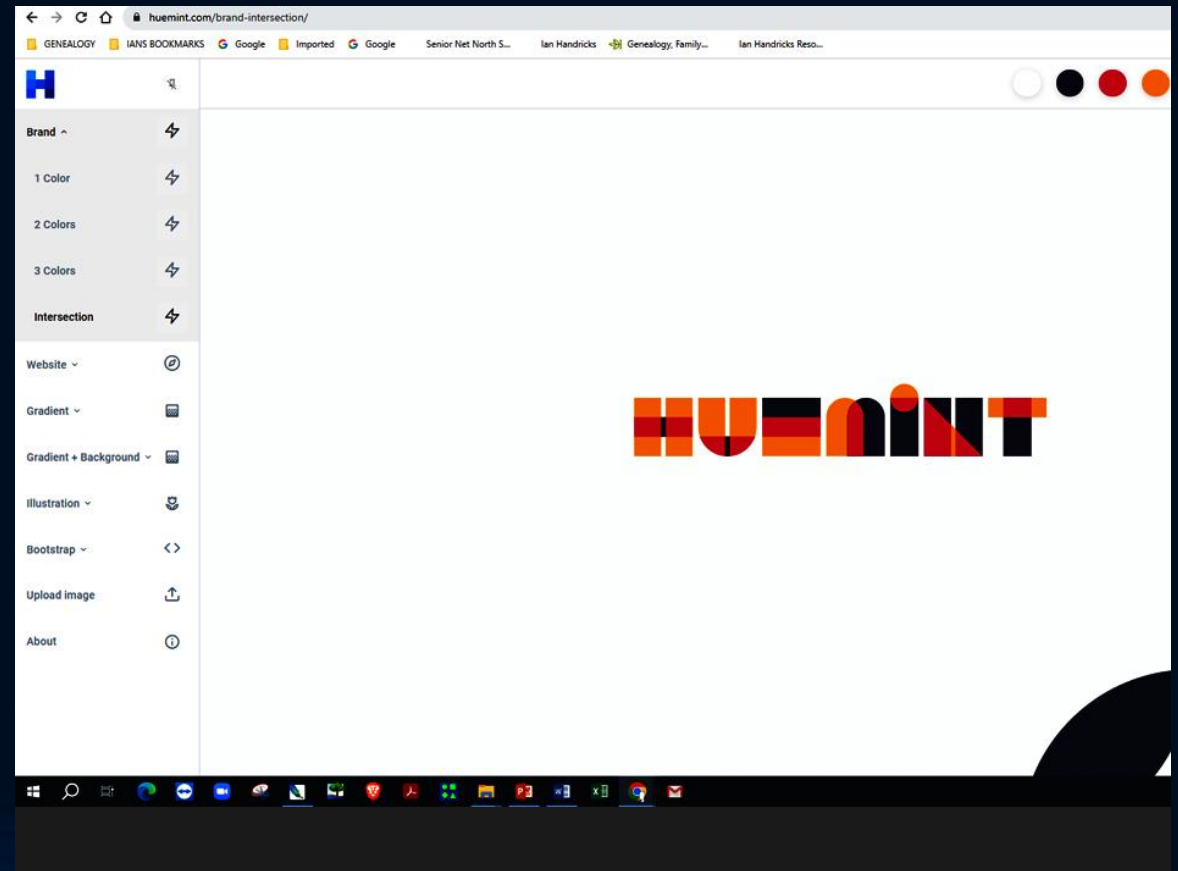
Below the table is a button that says "Start using this API →". At the bottom of the page, there is a section titled "TRY OUR SAMPLES" with a row of five small thumbnail images showing various scenes and people.

# HUEMINT

## AI COLOUR GENERATOR

Uses AI to determine colours  
and best colour combinations

LINK

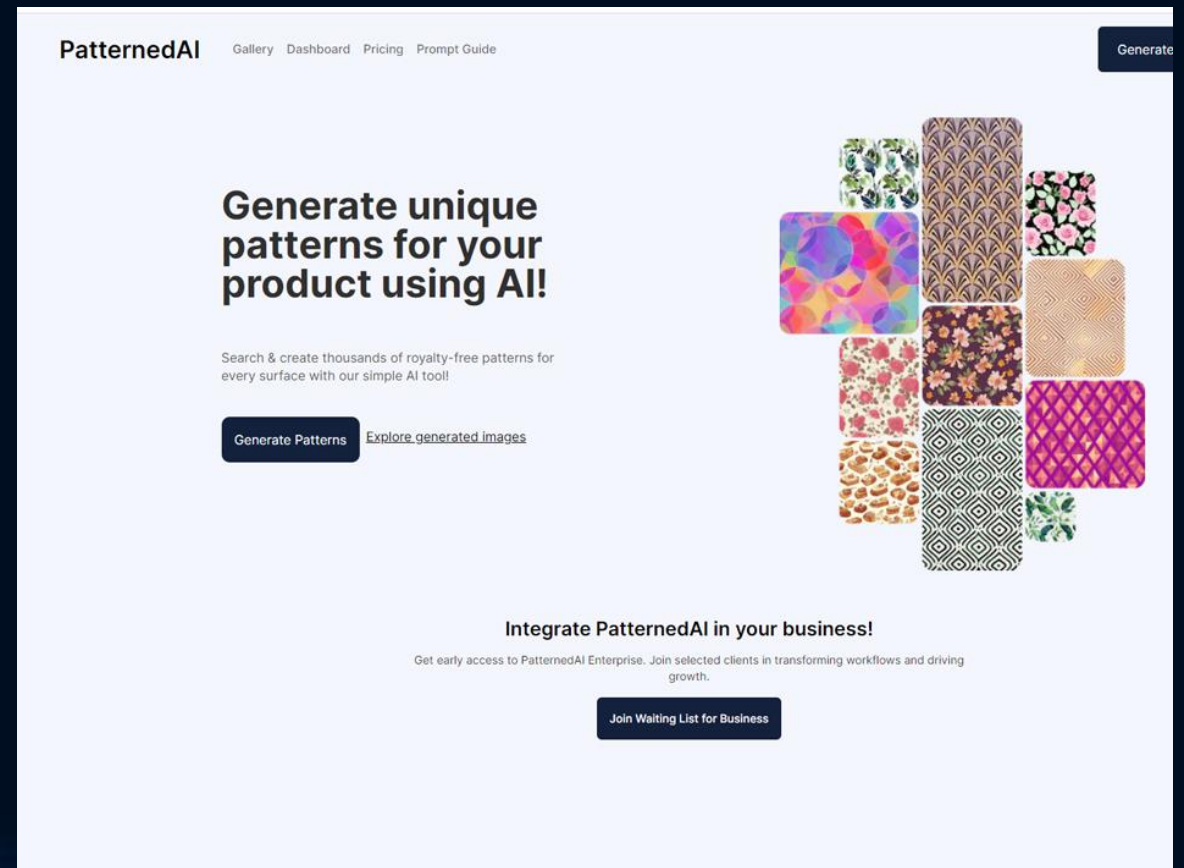


# PATTERNEDAI

AI PATTERN GENERATOR

Uses AI to create an infinite variety of patterns

LINK

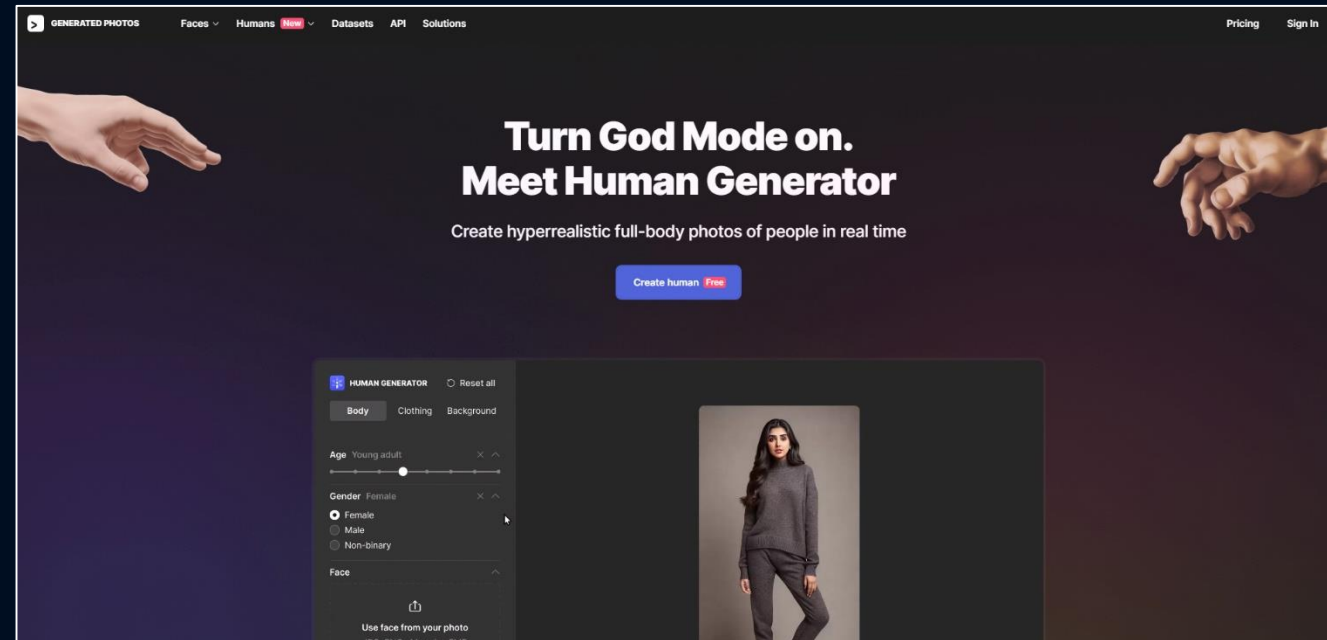


The screenshot shows the PatternedAI website homepage. At the top left is the logo "PatternedAI" with navigation links for "Gallery", "Dashboard", "Pricing", and "Prompt Guide". A "Generate" button is in the top right. The main heading reads "Generate unique patterns for your product using AI!". Below this is a sub-heading: "Search & create thousands of royalty-free patterns for every surface with our simple AI tool!". There are two buttons: "Generate Patterns" and "Explore generated images". To the right is a grid of various pattern samples. At the bottom, there is a section titled "Integrate PatternedAI in your business!" with a sub-heading: "Get early access to PatternedAI Enterprise. Join selected clients in transforming workflows and driving growth." and a "Join Waiting List for Business" button.

# HUMAN MAKER

## AI HUMAN GENERATOR

Uses AI to create a defined human being



LINK



# QUIZ MAKER

AI CONTEXT QUIZ GENERATOR

Uses AI to create a multi-choice set of questions and answers based on a sample of text

LINK

## AI Quiz Maker

Convert any text into an interactive quiz in seconds.

[New quiz](#) [History](#)


Text to use 0 / 5,000

Copy & paste the text you'd like to generate a quiz for.

Or, try a sample like [World War 2](#), [Trivia](#) or [Barack Obama](#)

Difficulty Medium

Design Aa Neon

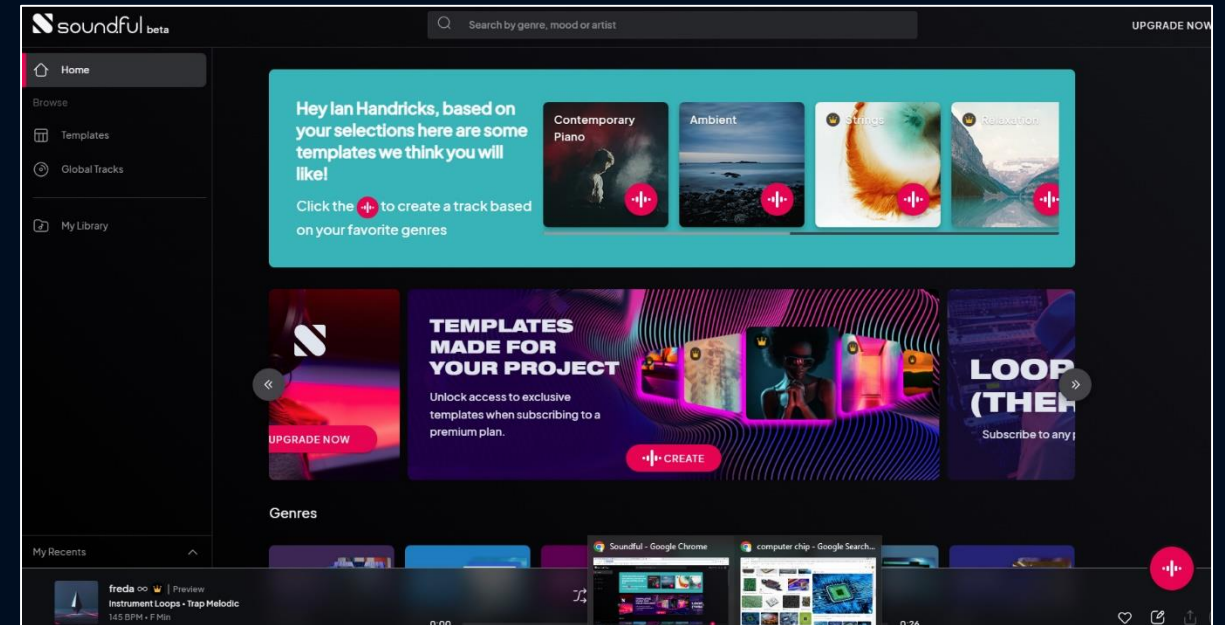
 **Generate quiz**

By using Filout, you agree to our [privacy policy](#) and [terms](#). Your quiz will be publicly accessible but only you will be able to see submissions.

# SOUNDFUL

## AI MUSIC GENERATOR

Uses AI to create original music  
in any genre



LINK

# Application

USING AI

# How can you utilise Artificial Intelligence?

- All forms of writing
- Photo manipulation
- Summarising & simplifying
- Education
- Extracting & translating
- Enjoyment & pleasure



# WRITING

## EXPRESSIONS OF INTEREST

- Letters, emails, notes, articles, diaries ...
- Poems, lyrics, captions, catchphrases, slogans ...
- Essays, reports, statements, recipes, journalism ...
- Web content, computer coding, blogging ...
- Stories, fairy tales, novels, biographies ...
- Problem-solving, mathematics, logic...
- Resumes, CV's, covering letters, proposals ...
- Speeches, presentations, technical documentation ...

# PHOTO MANIPULATION

## A DIFFERENT PICTURE

- Colourise
- Restore
- Sharpen and improve detail
- Change backgrounds
- Remove objects
- Enhance
- Animate
- Bring to life with dialogue



# SUMMARISE & SIMPLIFY

PRÉCIS PRECISELY

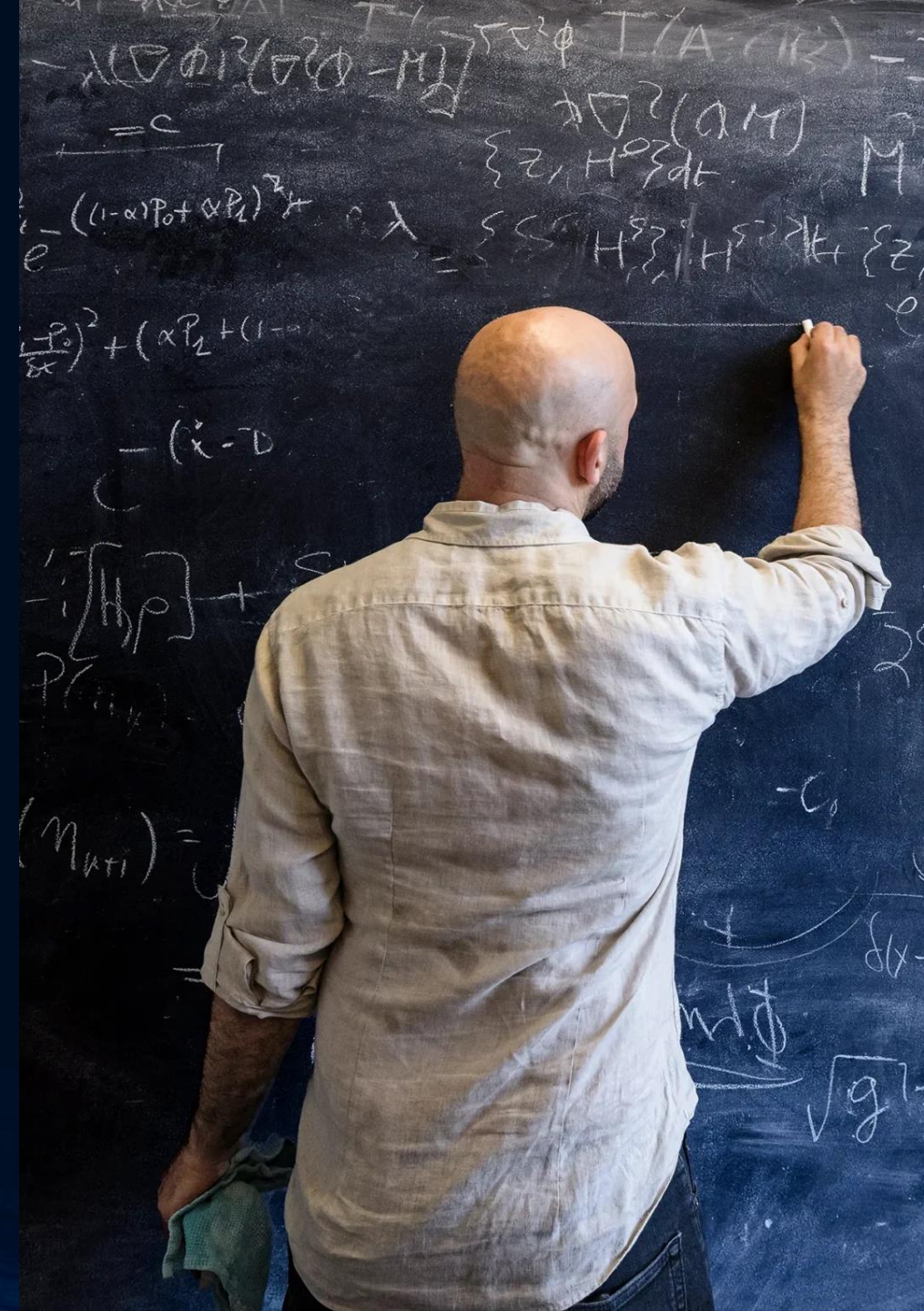
- Bullet point lists
- Summaries of long text
- Tables and grids
- Simplification of language
- Write for an age group
- Key points



# EDUCATION

## THE PURSUIT OF WISDOM

- Access to knowledge
- Dissection of process
- Comparison and evaluation
- Seeding thought
- Concept expressing
- Logic and structure





# EXTRACTION & TRANSLATION

## MINING & MIMING

- Extract data from text volume
- Find strings from data blocks
- Translate from and into any language



# ENJOYMENT & PLEASURE

## SONG & DANCE

- Create music
- Write poetry
- Make art
- Play games
- Create voices
- Hold a conversation
- Make movies
- Create photographs



# Looking Forward

THE FUTURE OF AI

# What is the future of Artificial Intelligence?

- Speed of life
- End of privacy
- Thicket of AI law
- Human-AI teaming

# SPEED OF LIFE

## TEMPO

- The most obvious change that many people will feel across society is an increase in the tempo of engagements with large institutions.
- Any organization that engages regularly with large numbers of users will be compelled to implement AI in the decision-making processes.
- AI will allow these organizations to make most of the decisions much more quickly.
- As a result, we will all feel life speeding up.



# END OF PRIVACY

## EXPOSED



- Society will also see its ethical commitments tested by powerful AI systems, especially privacy.
- AI systems will likely become much more knowledgeable about each of us than we are about ourselves.
- As the cost of peering deeply into our personal data drops and more powerful algorithms capable of assessing massive amounts of data become more widespread, we will probably find that it was a technological barrier more than an ethical commitment that led society to enshrine privacy.

# THICKET OF LAW

## CONTROLS



- We can also expect the regulatory environment to become much trickier for organizations using AI.
- Presently all across the planet, governments at every level, local to national to transnational, are seeking to regulate the deployment of AI.
- We can expect AI laws drafted & implemented
- The legal complexity of doing business will grow considerably in the next five years as a result.

# HUMAN-AI TEAMING

## COLLABORATION



- Much of society will expect businesses and government to use AI as an augmentation of human intelligence and expertise, or as a partner, to one or more humans working toward a goal.
- Human-AI teaming, or keeping humans in any process that is being substantially influenced by artificial intelligence, will be key to managing the resultant fear of AI that permeates society.





SOME FELLA FROM THE COLLEGE SAID  
A.I. COULD HELP RUN THE FARM, BUT I  
TOLD HIM I'M STICKIN' WITH E.I.E.I.O.

# Summary

WHERE TO FROM NOW

# OUR CHALLENGE

## PROMISE

The future of AI holds immense promise, but also requires careful navigation of challenges to harness its potential for the betterment of society while ensuring responsible and ethical development.

# DEVELOPMENT

## ADVANCEMENTS



- **Rapid Advancements:** AI has witnessed remarkable progress, thanks to deep learning, big data, and improved hardware, enabling it to excel in tasks like image recognition, natural language processing, and game playing.
- **Autonomous Systems:** Self-driving cars, drones, and robots have become more sophisticated, demonstrating the potential for AI-powered autonomous systems in various industries.
- **Natural Language Processing:** AI-driven language models can now generate human-like text, facilitate language translation, and assist in content creation.

# DEVELOPMENT

## ADVANCEMENTS



- **Healthcare Revolution:** AI aids in medical diagnoses, drug discovery, and personalized treatment plans, potentially revolutionizing healthcare outcomes.
- **AI in Finance:** AI algorithms are widely used in trading, risk assessment, fraud detection, and customer service within the financial sector.
- **Smart Assistants:** Virtual assistants like Siri, Alexa, and Google Assistant have become integral to daily life, performing tasks and answering queries through voice recognition.

# FUTURE

## TRENDS



- **Explainable AI:** As AI systems become more complex, there's a growing emphasis on making their decision-making processes transparent and understandable.
- **AI Ethics:** Addressing biases, fairness, and accountability in AI systems is crucial to avoid perpetuating social inequalities.
- **AI and Creativity:** AI-generated art, music, and literature are gaining prominence, raising questions about the intersection of AI and human creativity.

# FUTURE

## TRENDS



- **AI in Education:** Personalized learning experiences powered by AI are on the rise, adapting content to individual student needs.
- **AI in Climate Change:** AI can contribute to environmental monitoring, predictive modeling, and optimizing resource usage for sustainable practices.

# MORE FUTURE

## MORE TRENDS



- **AI and Jobs:** Automation might lead to job displacement in some sectors, but it can also create new opportunities in AI development, maintenance, and integration.
- **Healthcare Transformation:** AI-powered diagnostics, drug discovery, and telemedicine could redefine healthcare, making it more efficient and accessible.
- **Collaborative AI:** Humans and AI systems will likely collaborate more closely, enhancing productivity and problem-solving across various domains.



# MORE FUTURE

## MORE TRENDS



- **AI Regulation:** Governments and organizations are likely to implement stricter regulations to ensure AI development aligns with societal values and safety standards.
- **General AI:** Achieving AGI (Artificial General Intelligence), where machines can perform any intellectual task that a human can, remains a distant but tantalizing goal.

# CHALLENGES

## STEWARDSHIP



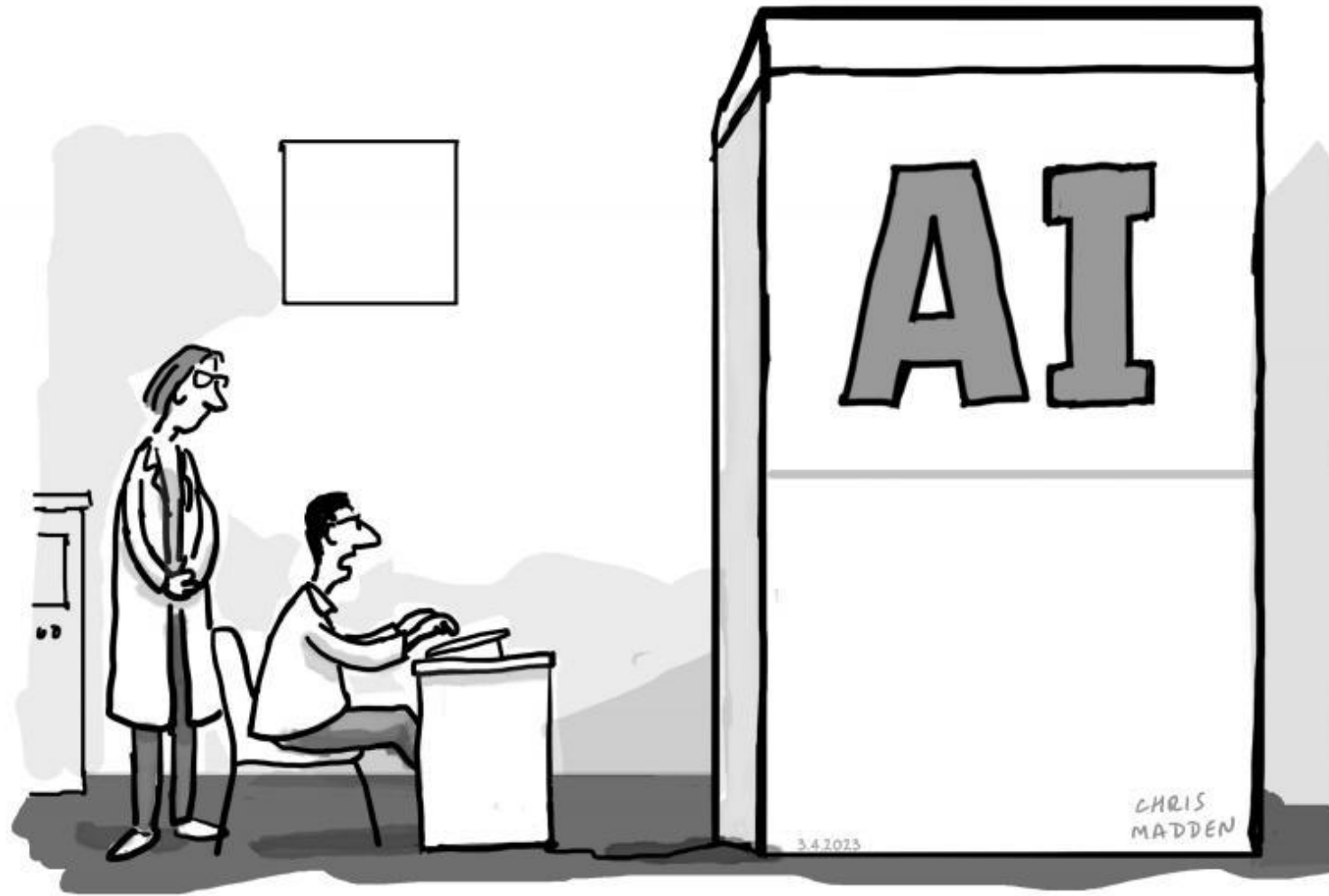
- **Data Privacy:** Balancing AI advancements with the protection of user data and privacy poses significant challenges.
- **Bias and Fairness:** Addressing biases inherent in AI models and ensuring fairness across diverse populations is an ongoing concern.
- **Unemployment:** Automation may lead to job displacement, necessitating strategies for reskilling the workforce.

# CHALLENGES

## STEWARDSHIP



- **Ethical Dilemmas:** AI systems can create ethical dilemmas, such as autonomous vehicles making life-and-death decisions.
- **Security Risks:** AI can be exploited for cyberattacks and misinformation, demanding robust security measures.



“We’ve got a problem. I’ve turned it on  
but I can’t turn it off again.”