

This presentation can be found here

<https://u3acommunities.org/interest-groups/computing/ai-for-enthusiasts/>

With Google, search for “u3a ai for enthusiasts”



Agenda

10:30 Presentation on AI

11:20 Live Demonstration & Q&A

11:35 Briefing for workshops & Q&A

11:50 Lunch

12:35 Discussion Groups and Hands on Workshop

Discussion:

Session1: How might AI transform Society (30mins)

Session2 : What are the Ethical Implications. (30mins)

Hands on Workshop

Working in pairs on the provided laptops

12:45 Workshops end

14:00 Wrap up in Plenary

15:00 Close

3 AI is Everywhere and is already delivering great benefits

Data Analytics

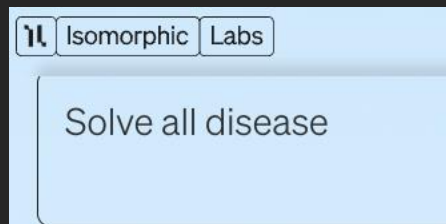
Weather Forecast



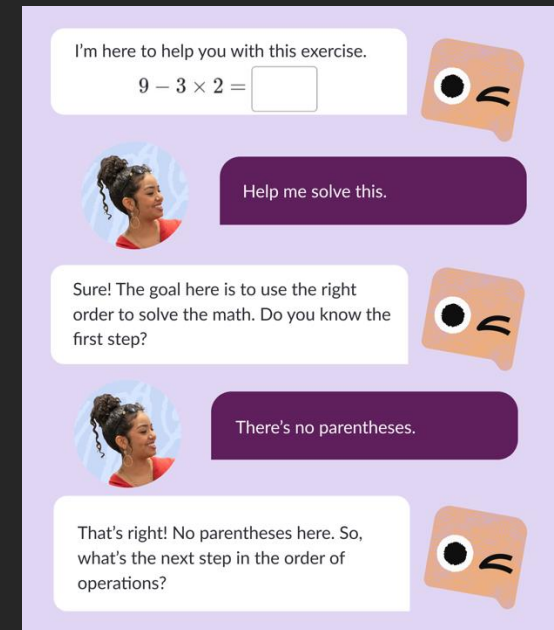
Fraud Detection



Health and Care



Education



Khan Academy's Khanmigo

13 min video about Khanmigo
<https://www.youtube.com/watch?v=la3CPhVkUtg>

4 AI is Everywhere and is creating harm



Fake News



Surveillance

Mother says AI chatbot led her son to kill himself in lawsuit against Character.ai

Guardian Newspaper
23rd October 2024

Mental Health



Cyber Crime



Environment

<https://go.crowdstrike.com/2025-global-threat-report.html>

5 AI is Everywhere and raising Ethical Questions

Jobs and Creativity

<https://youtu.be/2T-ZiEdMHvw>



Jobs and Employment



First \$bn Co. with
1 Employee?

Transparency, Bias, Exploitation

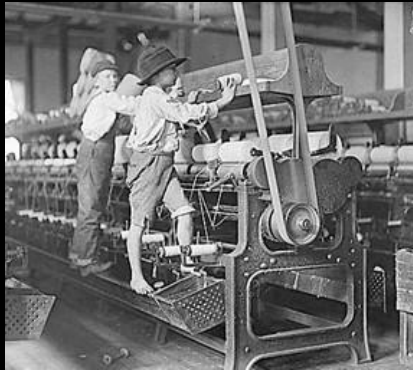


AI Data Labellers Kenya

Image: africaainews

6 To get the benefits of AI whilst minimising the harm requires education and regulation

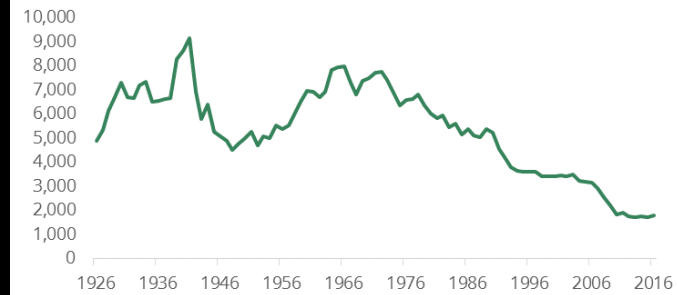
Factories



In 1840s- Average life expectancy:
of a rural worker 38 years
of a factory worker 15 years

Motor Vehicles

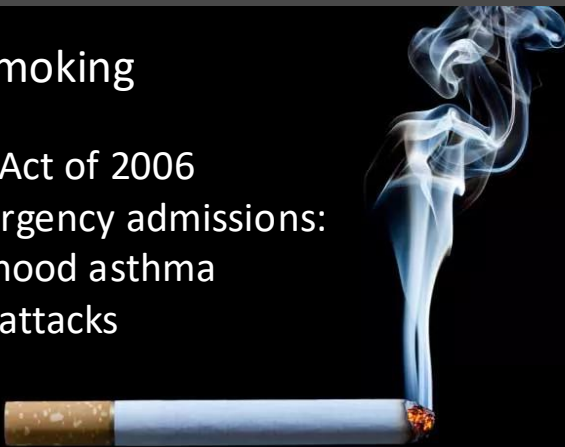
NUMBER OF DEATHS CAUSED BY REPORTED ROAD ACCIDENTS
IN GREAT BRITAIN



UK Motor Accident Deaths
Reduced from 9,000 a year to 2000 a year

Smoking

Smoking Ban Act of 2006
Reduced emergency admissions:
12% for childhood asthma
3% for heart attacks



Sandwiches

Over 15 Laws
govern the
making and sale
of sandwiches



7 What is AI and what are AI Chatbots?

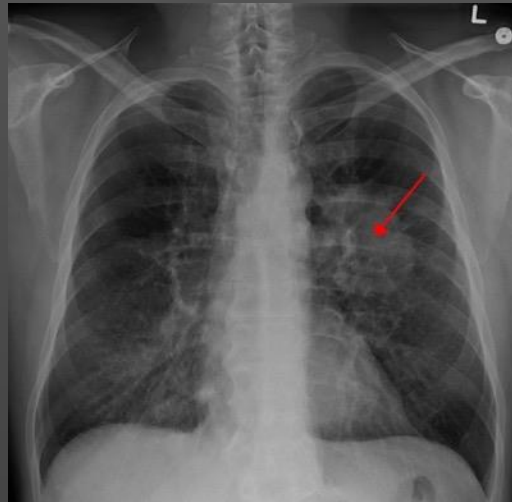
AI is a technique computers can use to make sense of huge amounts of messy information

Traditional Programming



Human defines,
Computer does

Classic AI

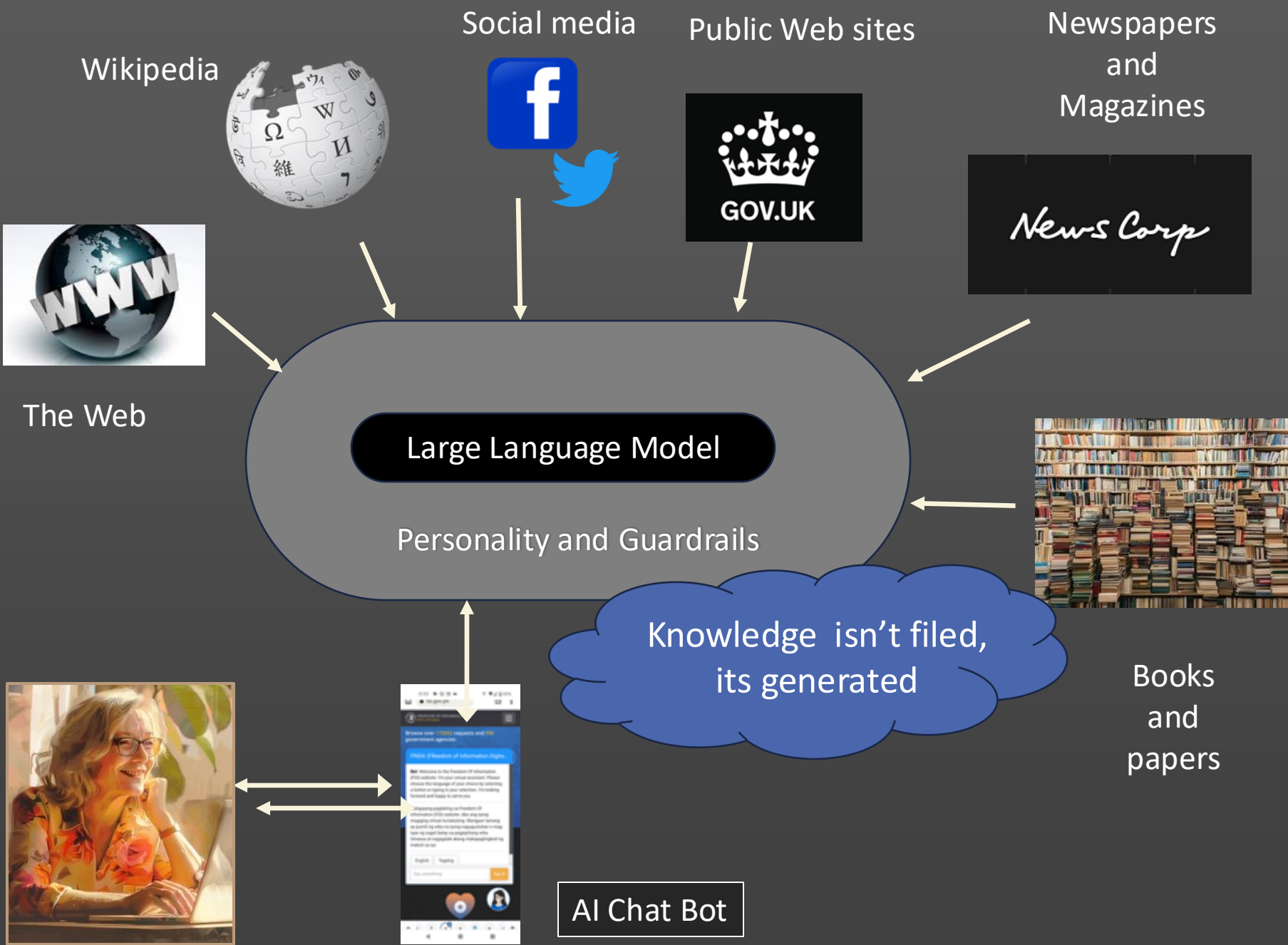


Human trains,
Computer decides

Generative AI

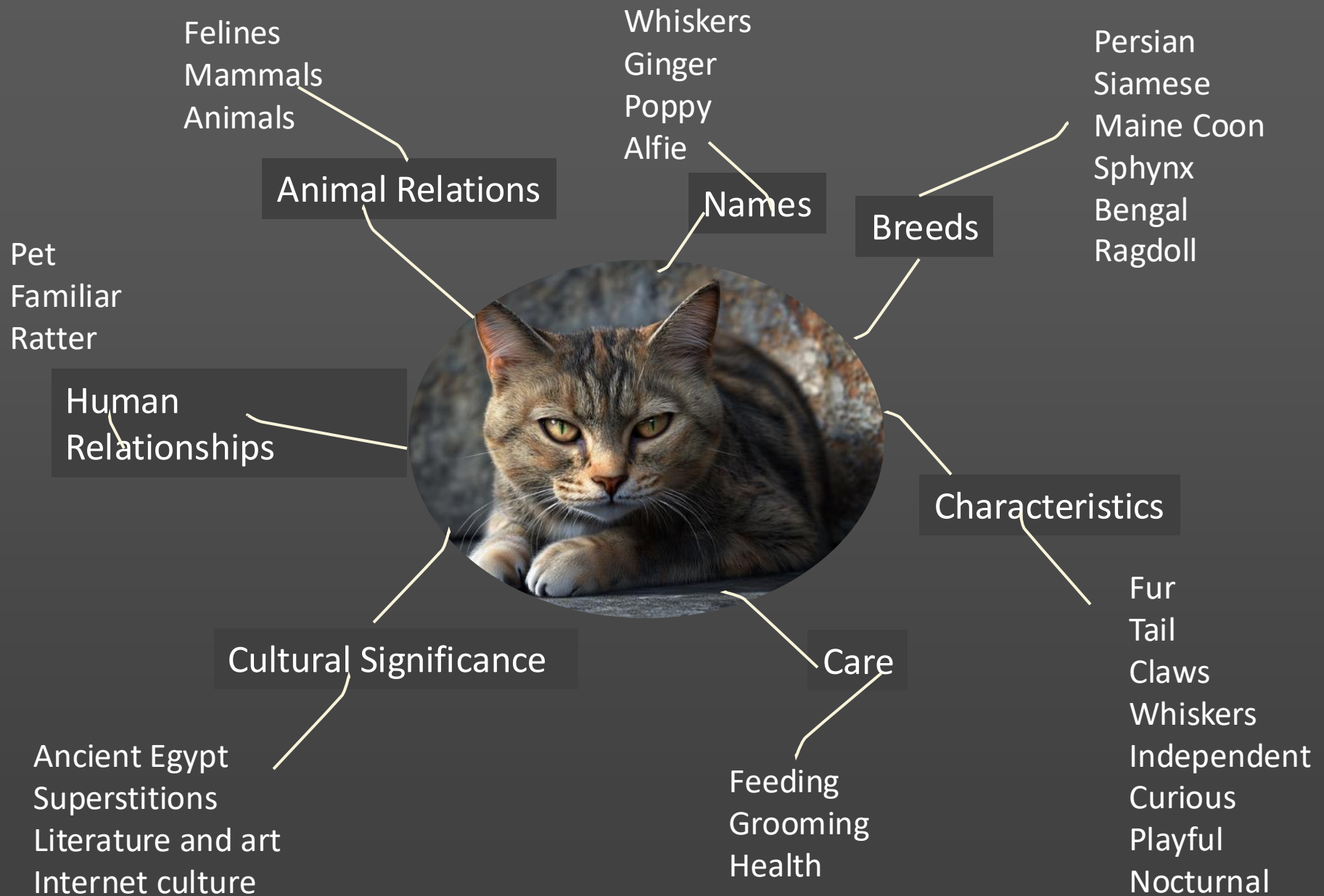


Human trains and asks,
Computer answers

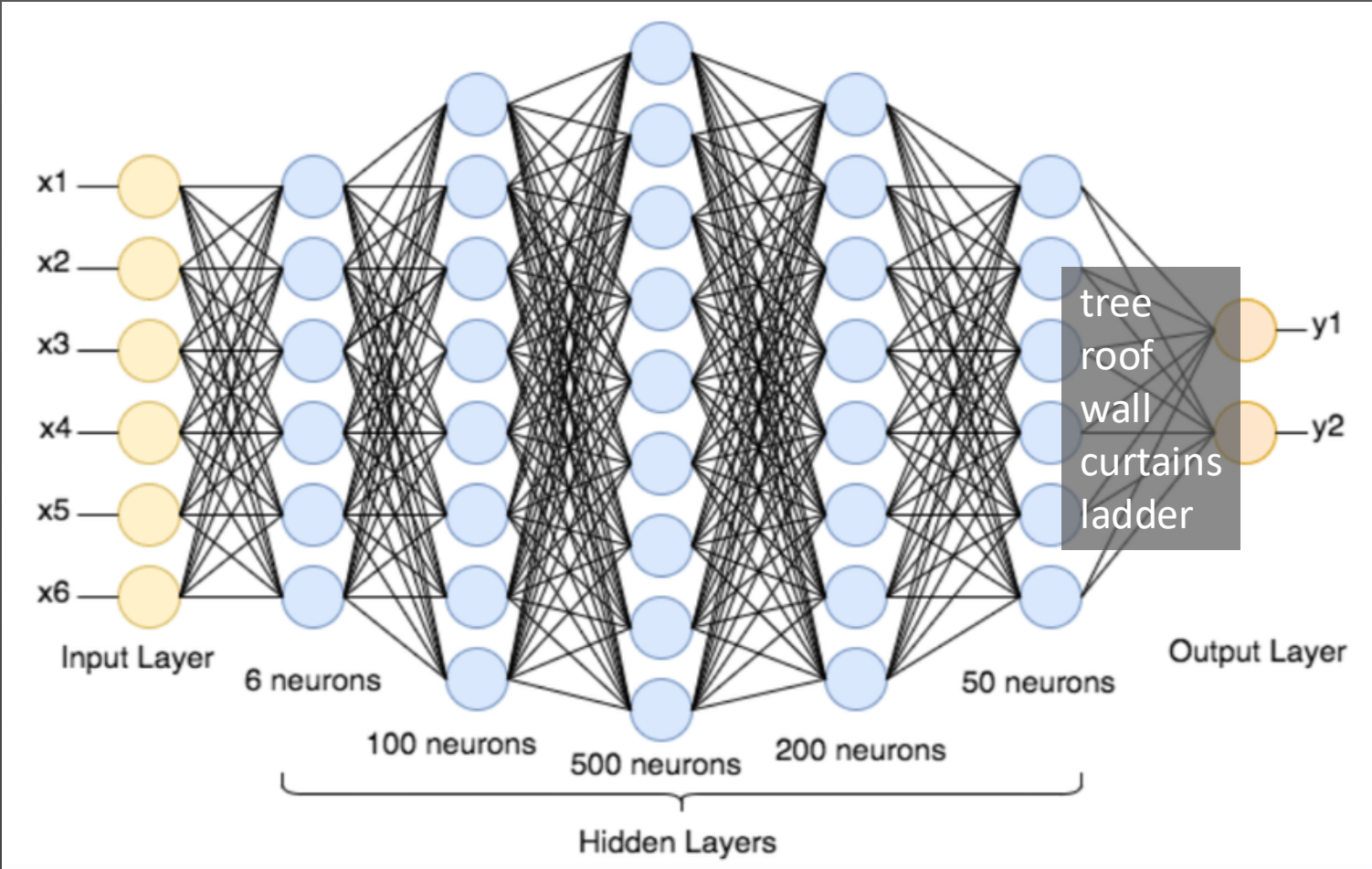




11 Knowledge comes from the strength of the connections between neurons



The
cat
climbed
up
the



Like humans, Large Language Models make up the responses they provide.

General Purpose AI Chatbots

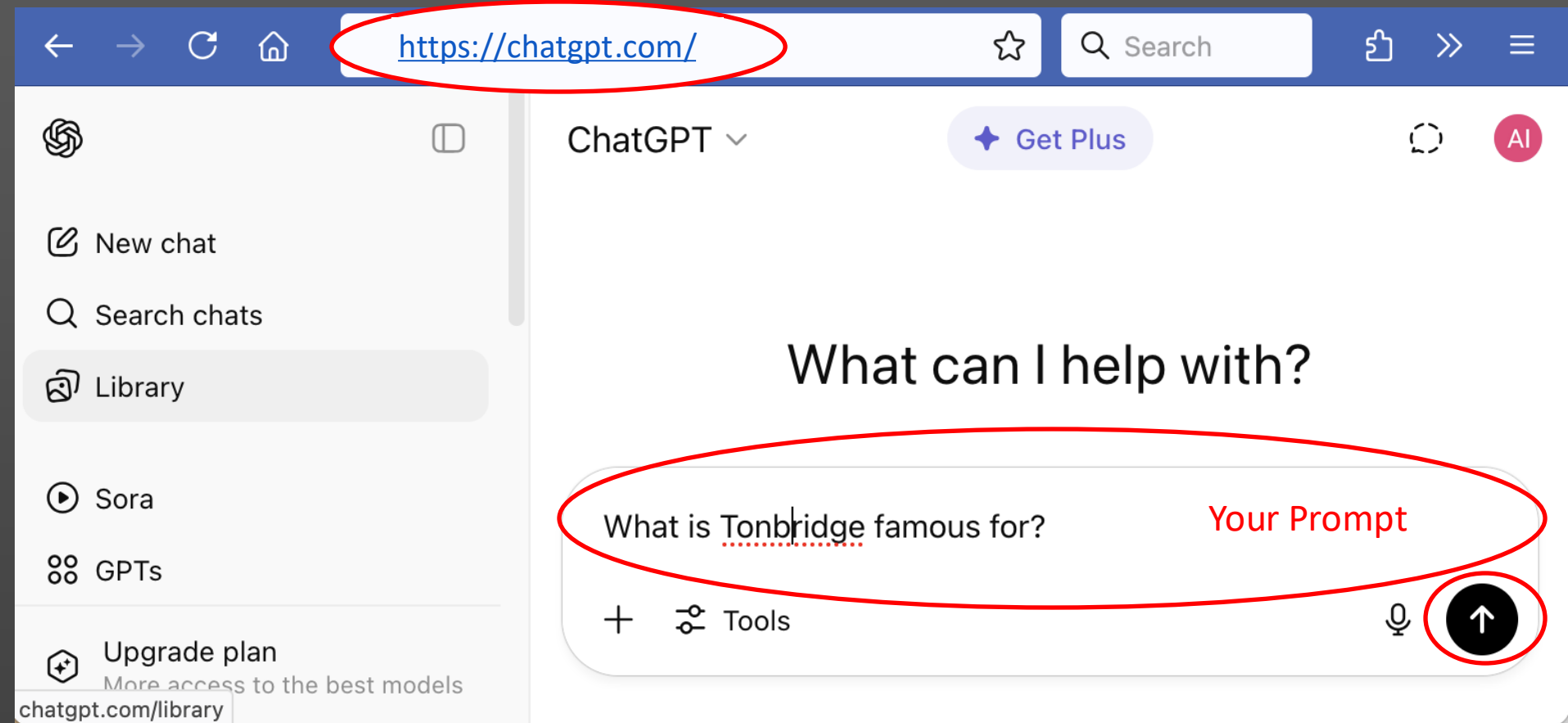


Specialist AI Systems



Embedded AI





New chat

Search chats

Library

Sora

GPTs

ZohoGPT — CRM, Produc...

Slide Maker: PowerPoints,...

Chats

Human-caused GHG Emissions

Human GHG Contribution Su...

Tonbridge Highlights

Donkey on Electric Bike

LLM Version Inquiry

Jill and Jack Duo

Presentation Creation Request

Smell Disease Presentation O...

Upgrade plan

More access to the best models

ChatGPT

Share

...

AI

what % of greenhouse gases are generated by human activity? Provide references

Human activities are responsible for **approximately 75%** of total greenhouse gas (GHG) emissions globally, according to leading scientific sources. Here's a detailed breakdown with references:

◆ Key Statistic

About 75% of total global GHG emissions are caused by human activities.

Source: Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report (2021–2023)

Quote: "Anthropogenic (human-caused) GHG emissions have increased since the pre-industrial era, driven largely by economic and population growth."

◆ References

1. IPCC Sixth Assessment Report (AR6) – <https://www.ipcc.ch/report/ar6/wg3/>

2. U.S. EPA – Overview of Greenhouse Gases – <https://www.epa.gov/ghgemissions/overview-greenhouse-gases>

3. Our World in Data – Greenhouse Gas Emissions – <https://ourworldindata.org/ghg-emissions>

Copy

Like

Share

Print

Edit

Undo

Redo

Share

The screenshot shows the Perplexity AI web interface. At the top is a browser address bar with the URL `https://www.perplexity.ai/`. Below the address bar is a navigation bar with icons for Home, Discover, Spaces, and Account. The main content area features the Perplexity logo and a large text input field with the placeholder text "Ask anything or @mention a Space". To the right of the input field is a button labeled "Attach files. 3 left today". Below the input field are several icons: a magnifying glass, a document, a lightbulb, a globe, a microphone, and a document with a checkmark. A red circle highlights the document with a checkmark icon. To the right of the input field is a large blue button with a white right arrow, also circled in red. Below the input field are five buttons: "Research", "Recommend", "Plan", "Fact Check", and "Learn". At the bottom is a banner for "Introducing Perplexity Max" with the text "Early access to our agentic browser Comet and unlimited Labs queries".

perplexity

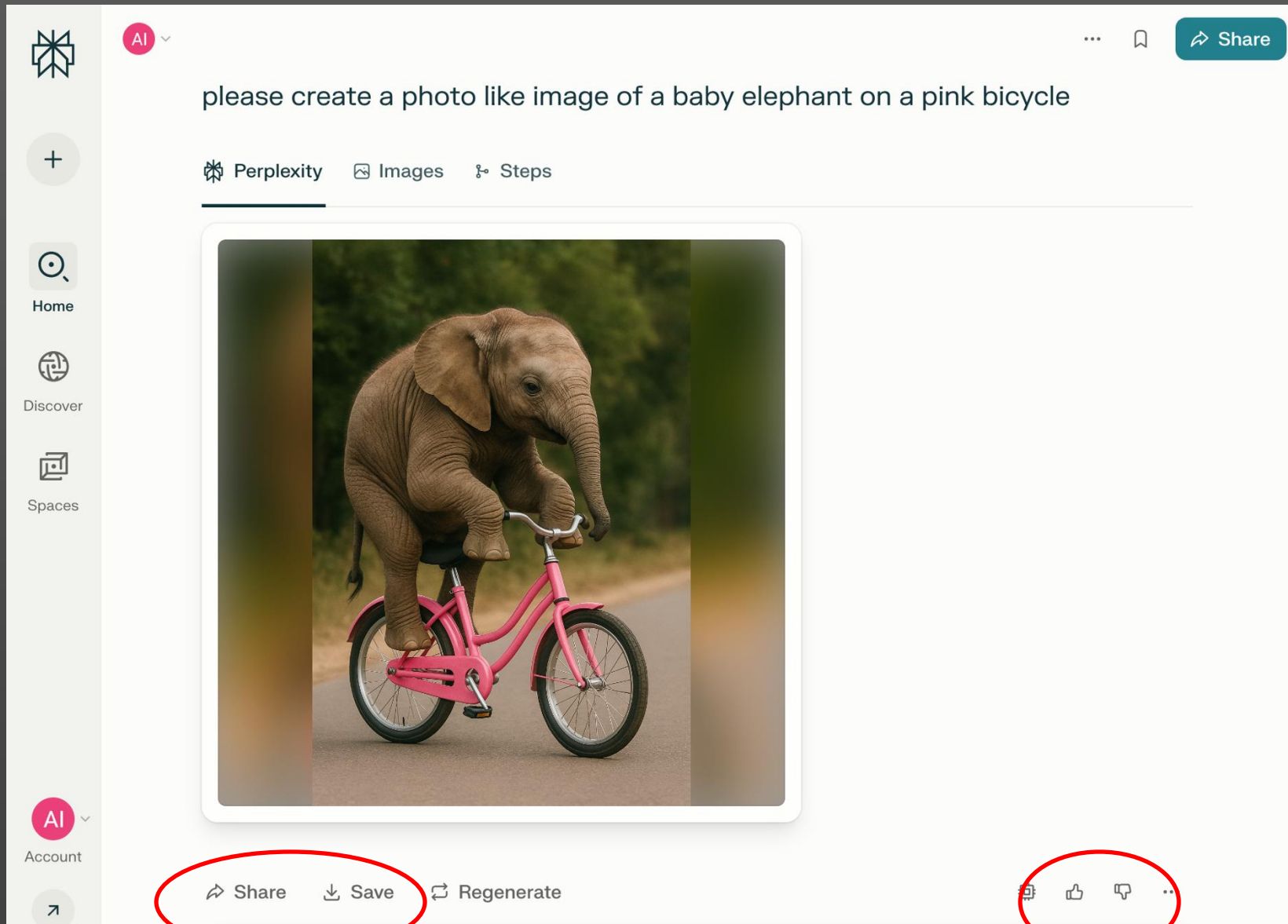
Ask anything or @mention a Space

Attach files. 3 left today

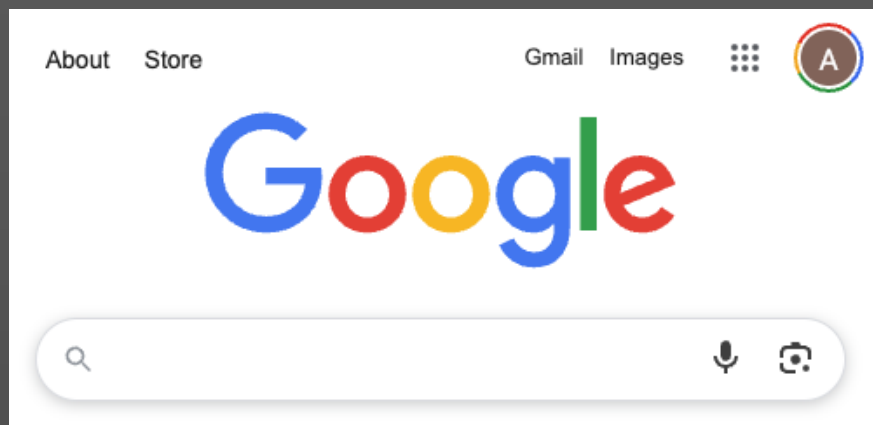
Research Recommend Plan Fact Check Learn

Introducing Perplexity Max
Early access to our agentic browser Comet and unlimited Labs queries

17 Perplexity user interface



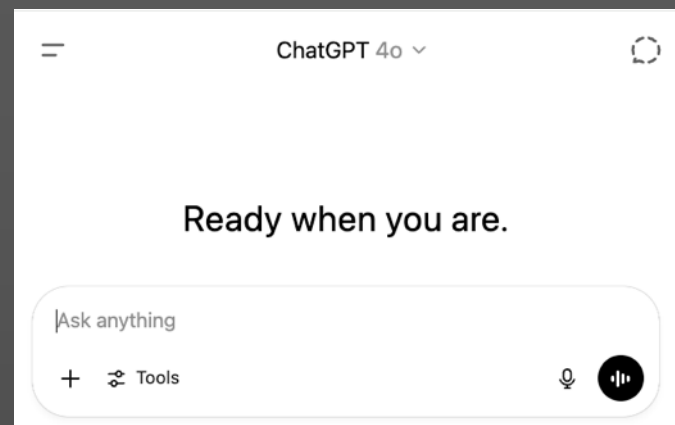
google.com



- Key word search of web site
- Provides list of sites
- Google is a messenger
- Open each site for information
- Fast, free and simple

Now with an AI summary

ChatGPT.com



- Is trained on written information
- Retrieves answer from memory
- AI Chatbot is an author
- Sometimes fast, free and simple
- Error prone

Now with Internet Search

19 Large Language Models are 'Aligned' with the Company's values

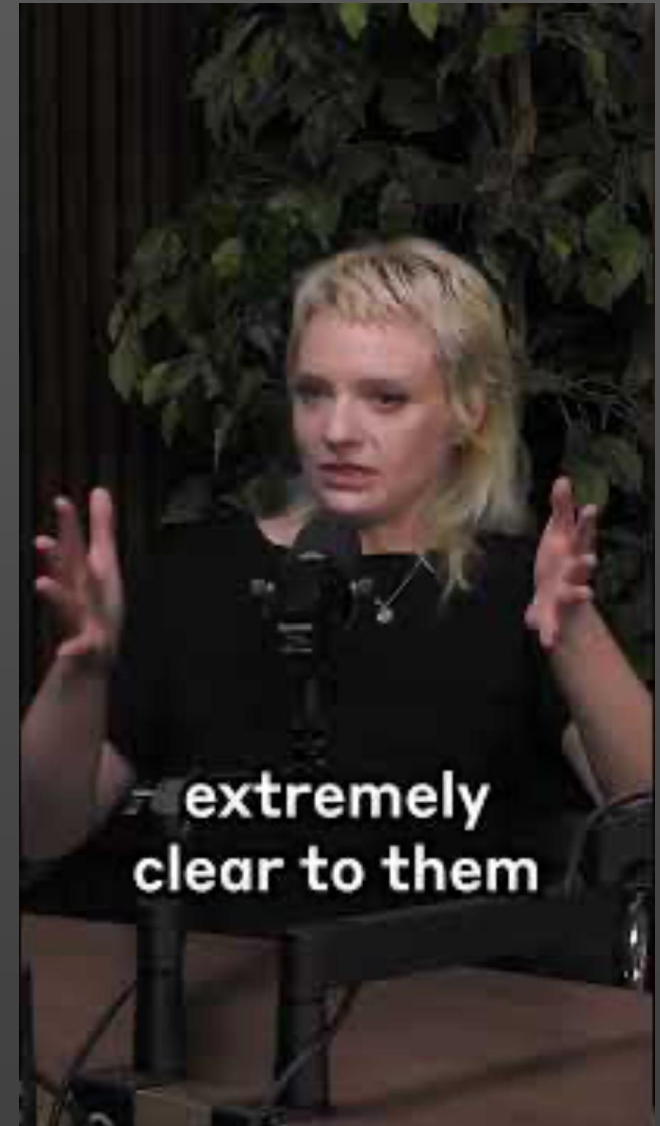
Amanda Askell

Large Language Model

Fine Tuning, Guardrails & Personality



<https://www.anthropic.com/research/claude-character>



<https://www.youtube.com/shorts/fccqAteps4Q>

20 The more you pay the better the AI System - but the free versions are very good

Open AI Pricing for ChatGPT

Free - £0 per month

- Access to GPT-4.1 mini
- Web searches
- Limited access to better models
- Limited access to file uploads, data analysis, image generation, and voice mode
- Use custom GPTs

Plus - £20 per month

- Everything in Free
- Fewer restrictions and limits
- advanced voice mode with video and screensharing
- Access to better models

Pro - £200 per month

- Everything in Plus
- (almost) unlimited access and use
- Access to OpenAI o3-pro for the best answers to the hardest questions
- Sora video generation
- Early access to latest models

1. AI is everywhere and is already creating benefits, creating harm, and raising ethical questions.
2. To get the benefits of AI whilst minimising the harm requires education and regulation
3. AI systems are trained not programmed
4. AI systems do not file knowledge - they generate it
5. AI uses mathematics and probability to determine the next word to output
6. A Generative AI system's knowledge comes from its 'brain' not the internet
7. Like humans, Large Language Models make up the responses they provide- they can be convincingly incorrect - called hallucinating
8. AI systems have no understanding of reality or what is true and they don't care about you.
9. Large Language Models are 'Aligned' with the Company's values
10. Short term benefits are being over hyped - long term risks are being under played



Hi AI.

AI Chatbot's reply



Hi AI.

Write a story book for my
grandson in Australia.





Hi AI.

Produce me a quiz on the
theme of Remembrance.





Hi AI.

How can I get more colour into my garden at this time of the year?

Here are some suggestions:

Shrubs

1. Hydrangea macrophylla
2. Pieris japonica
3. Rhododendron

Perennials

1. Hosta
2. Astilbe
3. Heuchera
4. Tiarella



Hi AI. Could you translate my Hospital Discharge letter into English.

Sarah presented to RSCH after having an episode of syncope which led to a RTC.

CTH was normal and ECHO was normal.

She was MFSD and should f/up with her cardiologist.

Sarah presented to Royal Sussex County Hospital after having an episode of syncope which led to a Road Traffic Collision.

CTH (Computed Tomography of the Head) was normal and ECHO (Echocardiogram) was normal.

She was Medically Fit for Discharge and should follow up with her cardiologist.



Dear AI.
I have forgotten where the oil goes.
Could you remind me.

To add oil to this engine, you need to locate the oil cap.

In this image, it is the black cap with the oil symbol on it, located to the left of the engine.

Unscrew the cap and add the recommended type and amount of oil for your specific Volkswagen Golf model.



Dear AI.

Can you help me practice my
spoken French?



Mais Oui



Dear AI.

My granddaughter is having an interview as a marine biologist for a resort in the Maldives. What questions is she likely to get asked?



Here are 20 questions broken down into:

1. Technical Knowledge
2. Experience based
3. Interpersonal and Adaptability
4. Maldives specific
5. Behavioural and Situational.....



Hi AI,
Does my bum look big in this?

"Thank you for sharing your photo with me. It's a lovely picture, and you look very stylish in that dress.

When you ask if your bum looks 'big', it's important to remember that 'big' is a subjective term, and different people and cultures have very different ideas about what is ideal or beautiful. As an AI, I don't have personal opinions on beauty standards.

What I can tell you, based on the image, is that the dress you're wearing accentuates a naturally curvaceous and rounded shape at your hips and bottom. It's a prominent feature that contributes to your overall silhouette in the photo.

Ultimately, how you feel about your appearance is the most important thing.

Q&A

Discussion Groups

Session1: How might AI transform Society (30mins)

Session2 : What are the Ethical Implications. (30mins)

Briefing sheet

Facilitator and feedback in plenary

Chatbot exercises

Exercise sheet - work in pairs at own pace

Chatbot accounts already created

Suno account will need to be created

Directory of files to share with ChatGPT

Free accounts limit use - when run out of use switch to perplexity tab

As well as enjoying the responses think critically about the response

Logistics

Free versus Fee

Privacy and Copyright

Trust

Hints and Tips



Which AI Chatbots to use

ChatGPT Great for creative tasks <https://chatgpt.com/>

Perplexity Great for accurate web searching with references <https://www.perplexity.ai/>

Gemini Great for lengthy chats & understanding videos <https://gemini.google.com/app>

CoPilot Like ChatGPT but integrated with Microsoft <https://copilot.microsoft.com/>

Mistral Open source and data stored in Europe. <https://mistral.ai/>



All the Chatbots listed offer a free version and paid for versions

Free

Perfectly adequate for initial use
Usage is restricted
Limited use of the better models
Missing some features

Fee- typically \$20 per month

Almost unlimited use
Access to better models
Access to more features

Tip: Use more than one AI Chatbot for when your daily usage expires.

Privacy

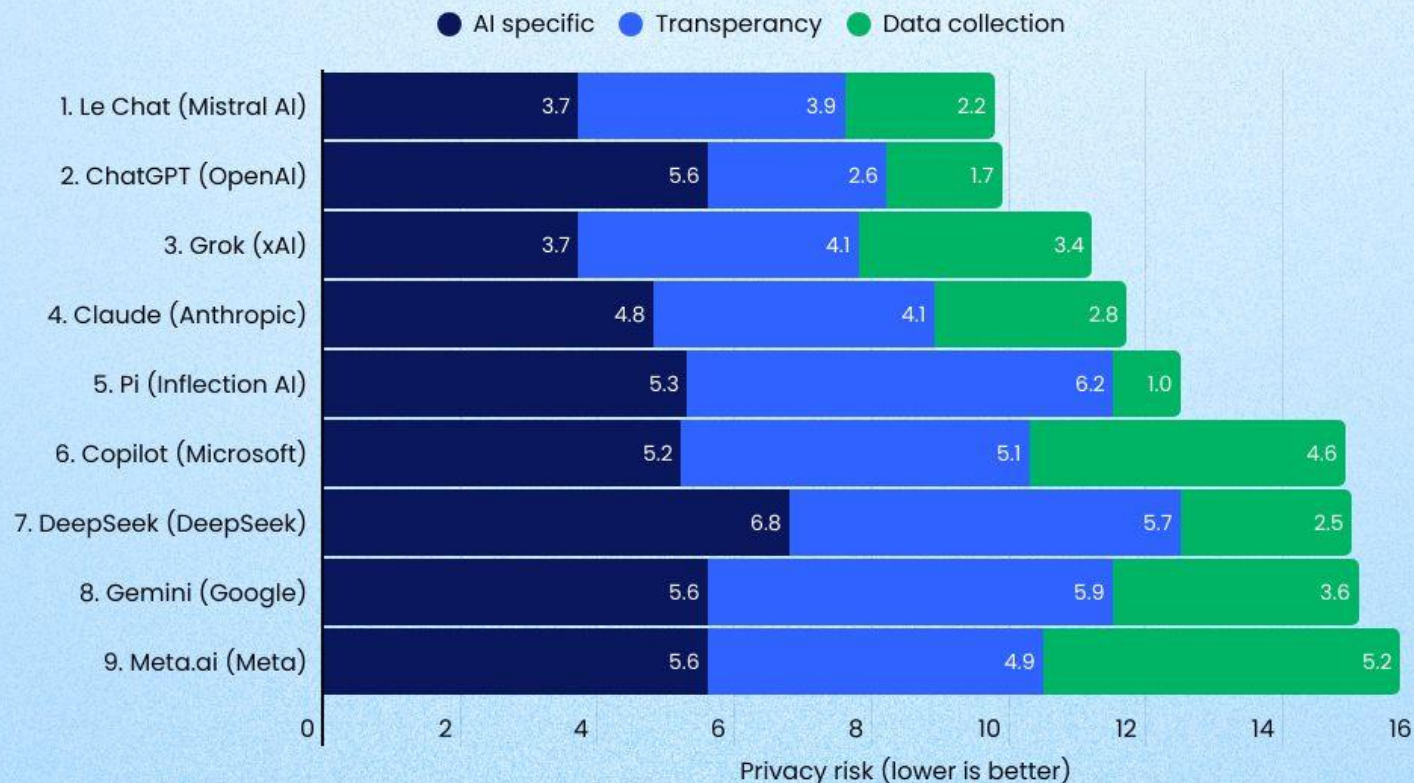


Copyright



‘David Hockney’ Style

AI platform privacy ranking 2025



This image is licensed under the Creative Commons Attribution-Share Alike 3.0 International License - <https://creativecommons.org/licenses/by-nc-sa/3.0/>

incogni



create me an image in the style of a Victorian painting of a canal boat being pulled by a horse through an idyllic country landscape



AI Chatbots try to be:

Helpful
Honest
Harmless



Have a conversation
Provide context
Be critical of responses



How to be critical:

Read the response!
Request sources & follow them up
Know something about the subject

<https://u3acommunities.org/interest-groups/computing/ai-for-everyone/>

Search for: u3a AI for Everyone

Chatbot for booking
Restaurants



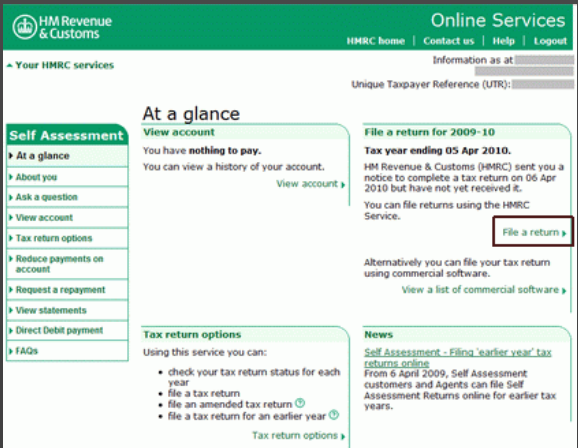
Chatbot for booking
Holidays



Chatbot for answering
your emails



Chatbot for tax filing



Self Driving Cars



A domestic maid/butler



Collaborator - Generating Ideas

Research Assistant - researching and analysing

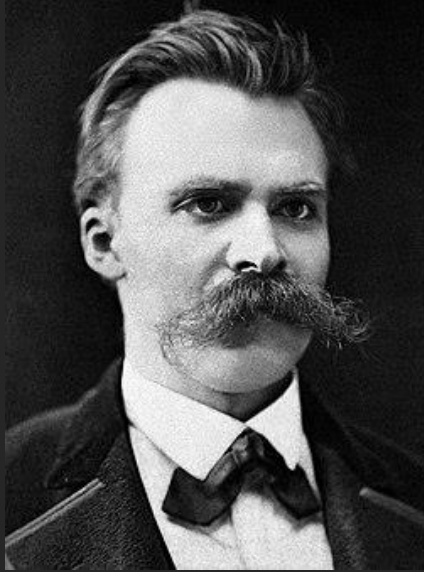
Admin Assistant - Creating text, images, documents or emails



The human's prompt

The response from AI

Collaborator Assistant



Nietzsche

I would like to produce a series of ten 2 hour classes for a u3a group covering the major European Philosophers and their seminal works. Please propose a class schedule.

Brainstorming: Producing a Class Schedule

Class 1: The Foundations – Plato and Aristotle

•**Themes:** The nature of reality, ethics, politics, and knowledge.

•**Works:**

- Plato – *The Republic*
- Aristotle – *Nicomachean Ethics, Politics*

Class 2: Reason and Faith – Augustine and Aquinas

Class 3: Rationalism – Descartes and Spinoza

Class 4: Empiricism – Locke, Berkeley, and Hume

Class 5: Enlightenment and Political Philosophy – Rousseau and Voltaire

.....

Collaborator Assistant

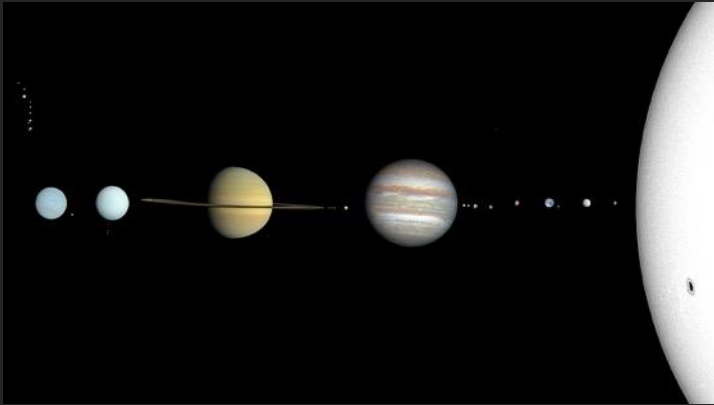


I am giving a one hour talk on Edo Era Prints to a u3a class. What are the top 10 topics i should cover?

Brainstorming: Producing a Talk

1. **Introduction to the Edo Period (1603–1868)**
2. **The Rise of Ukiyo-e ("Pictures of the Floating World")**
3. **Techniques and Production**
4. **Popular Themes**
5. **Notable Artists and Their Contributions**
6. **The Appeal to the Masses**
7. **Landscapes and the Shift in Subject Matter**
8. **Ukiyo-e and Japanese Society**
9. **Influence on Western Art (Japonisme)**
10. **Legacy and Modern Appreciation**

Collaborator Assistant



produce me 5 multiple choice questions for a u3 audience about the origins of stars and planets

Brainstorming Producing a Quiz

1. What is the primary material from which stars and planets form?

- A. Liquid water, B. Solid rock, C. Gas and dust, D. Ice and metal

2. What is a nebula?

- A. A type of small planet, B. A dying star, C. A cloud of gas and dust in space, D. A black hole

3. What event usually triggers the birth of a new star?

- A. The cooling of a planet, B. A nearby star exploding (supernova) C. The orbit of a comet, D. A planet moving out of orbit

Research Assistant



What is the meaning of this print?

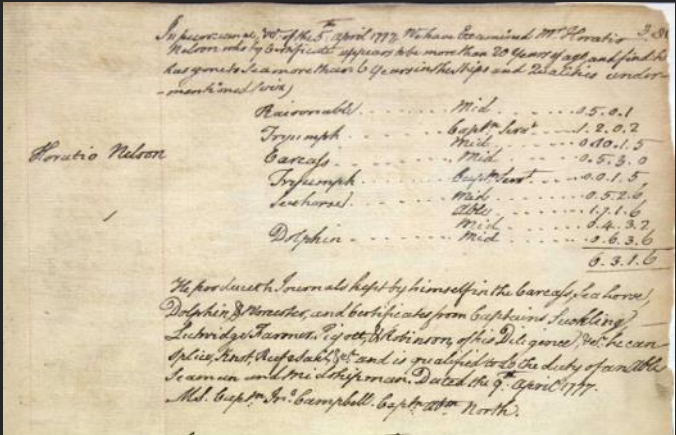
Image Analysis

The artwork features Shou Xing, the Chinese God of Longevity, easily recognised by his high forehead and long white beard.

A staff with a gourd tied to it, a deer and a crane, are all symbols of longevity.

Research Assistant

Image Analysis



please detail the text on this certificate of Nelson lieutenancy examination

Transcription of the Main Text:

In pursuance of an Order of the 17th April 1777, We have examined Mr. Horatio Nelson who by certificate appears to be more than 20 years of age and find he has gone to sea more than six years in the ships and capacities undermentioned.

Ship	Capacity	Time Served
Raisonnable	Mid[shipman]	1.5.0.1
Triumph	Capt[ain's] Serv[ant]	1.0.2.2
Carcass	Mid	0.0.7.1
Seahorse	Mid	1.1.1.5
Dolphin	Mid	0.3.1.6

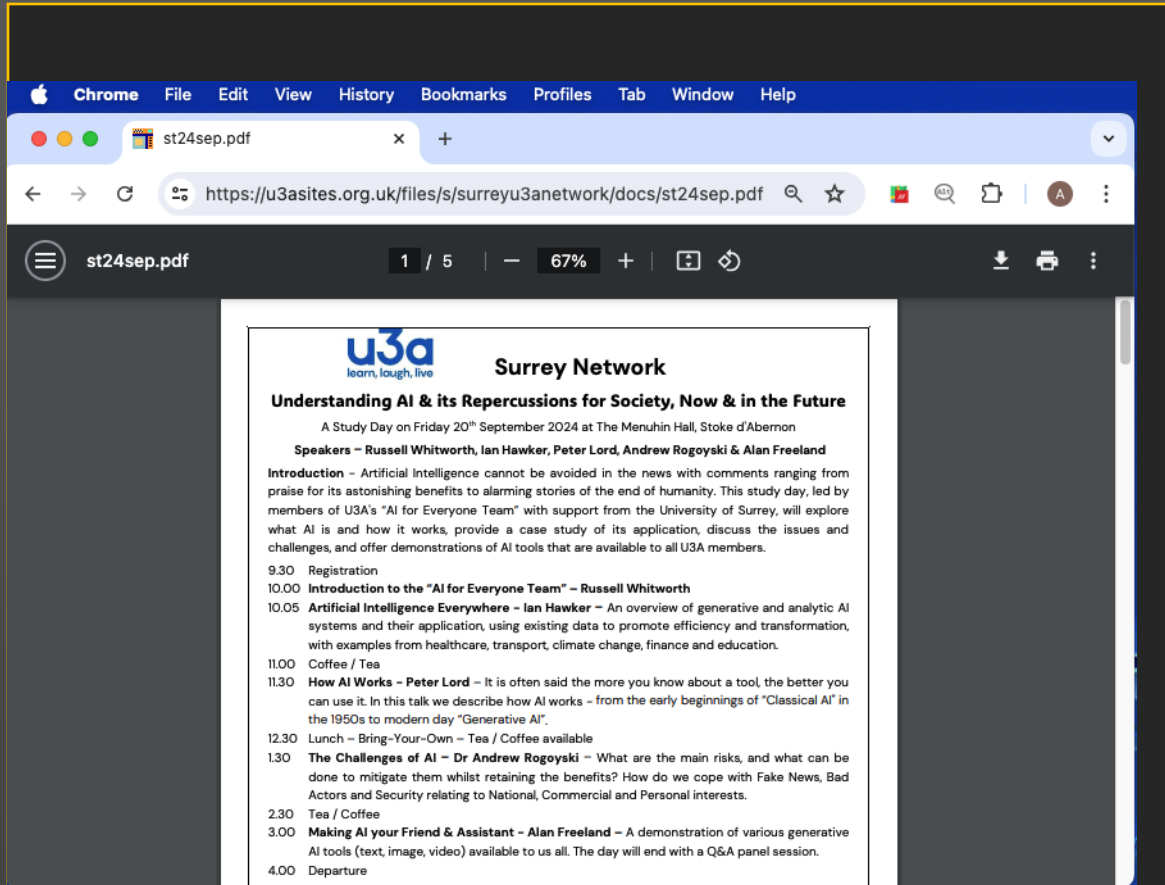
The above account from old books and kept by himself in the Carcass & a tour in the Dolphin to the West Indies, and certificates from Captains Suckling, Lutwidge, Farmer, Pigott and Robinson, with the judgment we have made and that supported by the strictest enquiry, we do certify to be true to the best of our knowledge.

Dated this 17th of April 1777.

Mel[ville], Capt. Jn. Campbell, Capt. Walter Young

Research Assistant

Image Analysis



How do I print this document?

1. Open the Print Dialog:

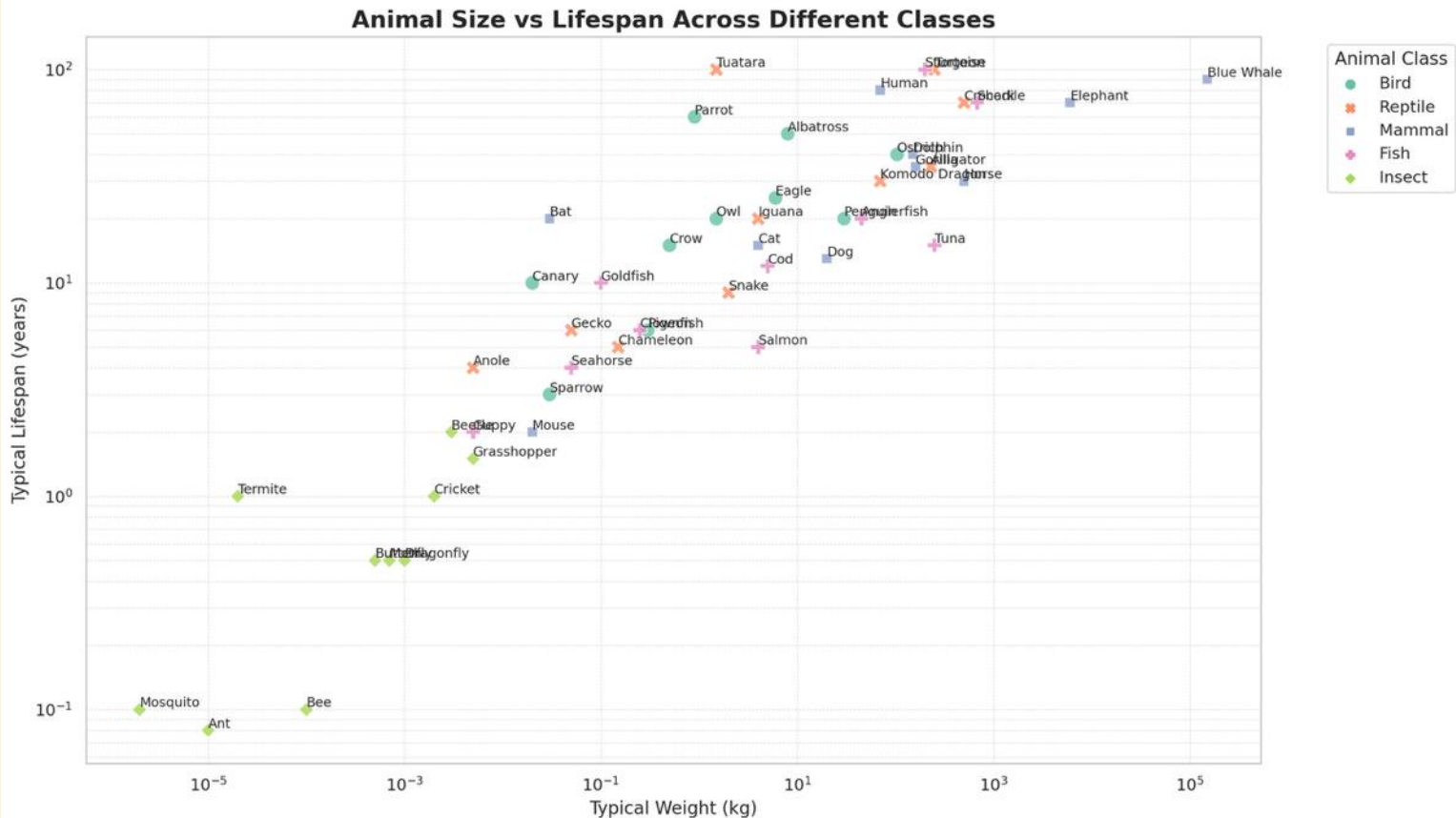
2. Click on the three vertical dots (menu) in the upper right corner of the browser window.

3. Select the 'Print' option from the dropdown menu.

Research Assistant

Scientific Analysis

i would like to understand whether longevity in the animal kingdom is related to the size of the animal. Could you produce me a table with say 10 animals of different sizes from each of Birds, Reptiles, Mammals, Fish and Insects recording their typical weight and lifespan.



Research Assistant

Searching the web and summarising



What were the main topics of discussion at the last G7 meeting. Please provide references.

The 50th G7 Summit took place from 13 to 15 June 2024 in Borgo Egnazia, Apulia, Italy. The leaders of the G7 nations, along with invited guests and international organisations, convened to address several pressing global issues. The main topics of discussion included: □

1. Support for Ukraine

The G7 leaders reaffirmed their unwavering support for Ukraine in the face of Russia's ongoing aggression. A significant outcome was the agreement to provide Ukraine with a \$50 billion loan, leveraging profits from frozen Russian assets. This move aimed to bolster Ukraine's defence and reconstruction efforts. □cite□turn0search4□□

2. Middle East Conflict

The summit addressed the ongoing situation in the Middle East, with leaders backing a comprehensive deal to bring an end to the Israel-Hamas conflict. The G7 expressed support for a ceasefire and the release of hostages, emphasising the need for a peaceful resolution. □cite□turn0search4□□

3. Migration

Migration was a key topic, particularly for the host nation, Italy. The G7 leaders launched the G7 Coalition to combat migrant smuggling and address its root causes. The initiative focused on enhancing investment in migrants' countries of origin to reduce migratory pressures. □cite□turn0news22□□

4. Economic Security and Indo-Pacific Region

Discussions encompassed economic security challenges and the geopolitical dynamics of the Indo-Pacific region. The leaders emphasised the importance of political stability and economic cooperation, expressing concerns over China's influence and advocating for fair trade practices. □cite□turn0search3□□

5. Artificial Intelligence (AI)

The summit addressed the implications of artificial intelligence, with Pope Francis making a historic appearance to discuss the ethical considerations of AI development. The leaders underscored the importance of harnessing AI for the benefit of all, ensuring it aligns with human dignity. □cite□turn0search5□□

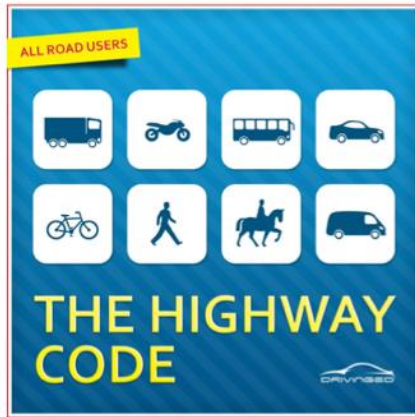
6. Africa and Climate Change

The G7 emphasised partnerships with Africa, launching initiatives like the Energy for Growth in Africa to invest in sustainable industrial and infrastructural development. Climate change and development were central themes, with a focus on supporting Africa's energy transition and addressing environmental challenges. □cite□turn0search3□□

These discussions were encapsulated in the G7 leaders' communiqué issued at the conclusion of the summit. □cite□turn0search2□□

Research Assistant

Summarising a document



[highwaycodeuk.co.uk](https://www.highwaycodeuk.co.uk)
Updated 17/09/2023

Please summarise this document in one paragraph

The Official Highway Code, updated on 17/09/2023, provides comprehensive rules and guidelines for all road users in England, Scotland, and Wales, aiming to promote safety, efficiency, and sustainability in transport. It covers rules for pedestrians, users of **powered wheelchairs and mobility scooters**, animals, cyclists, motorcyclists, drivers, and motorcyclists. The document outlines general rules, techniques, and advice for all drivers and riders, including using the road, driving in adverse weather conditions, waiting and parking, motorways, breakdowns, and incidents. It also details road signs, signals, and markings, and provides additional guidance on vehicle maintenance, safety, first aid, and penalties for non-compliance. The code emphasizes the hierarchy of road users, **self-driving vehicles**, and the importance of being considerate and responsible to ensure everyone's safety on the road.

Research Assistant

Alternative view points



please provide two one paragraph analysis of the benefits and risks of Trumps tariff strategy. One analysis from Trump's perspective and one from a free market perspective

From Trump's Perspective:

Donald Trump's tariff strategy, particularly targeting China and other major trading partners, was intended to rebalance trade relationships he deemed unfair and to revive domestic manufacturing. By imposing tariffs, Trump sought to pressure foreign governments into renegotiating trade deals more favourable to American interests, protect key industries from foreign competition, and reduce the trade deficit. This approach appealed politically to working-class voters in manufacturing-heavy states, aligning with his "America First" agenda. The perceived benefit was a resurgence in domestic production and stronger national economic autonomy.

From a Free Market Perspective:

From a free market standpoint, Trump's tariff policy posed significant risks by disrupting the principles of comparative advantage and open competition. Tariffs function as a tax on imports, often leading to higher prices for consumers and increased costs for businesses reliant on global supply chains. Protectionist measures can provoke retaliatory tariffs, hinder international trade, and reduce overall economic efficiency. In the long run, such interventions are seen as distorting market signals, discouraging innovation, and potentially harming the very industries they aim to protect by insulating them from global competition.

Admin Assistant

Brainstorming: Producing a Garden Club membership renewal project plan



Please provide a project plan for renewing membership of a gardening club for 2026. Membership renewal is due from 1st January. Subscriptions due by 16th January. Delivery of membership packs by volunteers first week of February and no volunteer to deliver more than 10 packs.

<https://chatgpt.com/share/68274f25-df34-8005-9a45-5ce03d2c093a>

Admin Assistant



Personal Assistant
"Shortwave"

Have I had any meeting
requests this last week?

Add the network link to
my Calander

Manage my Calendar

1. MCLL Thank You Dinner

- Invitation to attend on Thursday, June 19th, 2025
- At McGill Faculty Club, 6:00-10:00 PM
- RSVP required by June 12th

2. AI Cyber Security talk

- Your AI group is hosting someone from Police South East Cyber Crime Unit
- Scheduled for June 4th, 14:00-16:00
- You've received responses from committee members who wish to attend

3. Network Link Summer Event

- Monday, June 9th at 10:00 AM
- You're scheduled to speak about "Using AI to make leading within the u3a easier"

I've added the Network Link Event to your calendar:

Admin Assistant



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Admin Assistant

Creating text, images,
documents or emails

Creating images

From Mike Hender, Chiltern u3a



Admin Assistant

Creating text, images,
documents or emails

Creating images



From Mike Hender, Chiltern u3a

Creating text, images,
documents or emails

Explainers

Not sure what these terms mean and how they relate?

Accessibility, Equality, Diversity, and Inclusion are interconnected and crucial for creating a fair and equitable society.

Accessibility ensures that people of all abilities have equal access to resources and opportunities, supporting equality and inclusion.

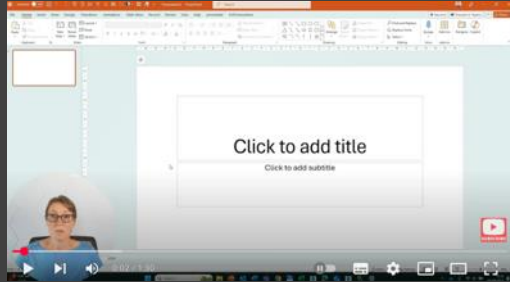
Equality is about providing the same resources and opportunities to everyone, irrespective of their background or identity, to promote fairness.

Diversity recognises and values differences in people, such as race, gender, and religion, enriching environments with varied perspectives.

Inclusion involves creating environments where diverse individuals feel valued, respected, and involved, ensuring their contributions are recognised.

Together, these concepts aim to build a society where every individual has an equal chance to participate and succeed.

1. Office 365 plus Copilot £££



2min video: How to create PowerPoint from Word

https://www.youtube.com/watch?v=_q2Ef5xfgM

Copilot: £228, Office 365: £85 , both per year

2. AI to PowerPoint Tools - £



Trial- Free
Plus- £72 pa

<https://gamma.app/>

3. Canva



https://www.canva.com/en_gb/help/canva-for-nonprofits/

4. AI Chatbot & PowerPoint - manually

5. AI to PowerPoint Tools - Free

GPT: Slide Maker:

www.aidocmaker.com

Analysis of logical requirements



Dear AI. I am organising a bowls tournament for 24 players who have to play different players in different rooms over 3 rounds.

Can you produce a plan of who plays who where?

Certainly! Here are the details for each round.....

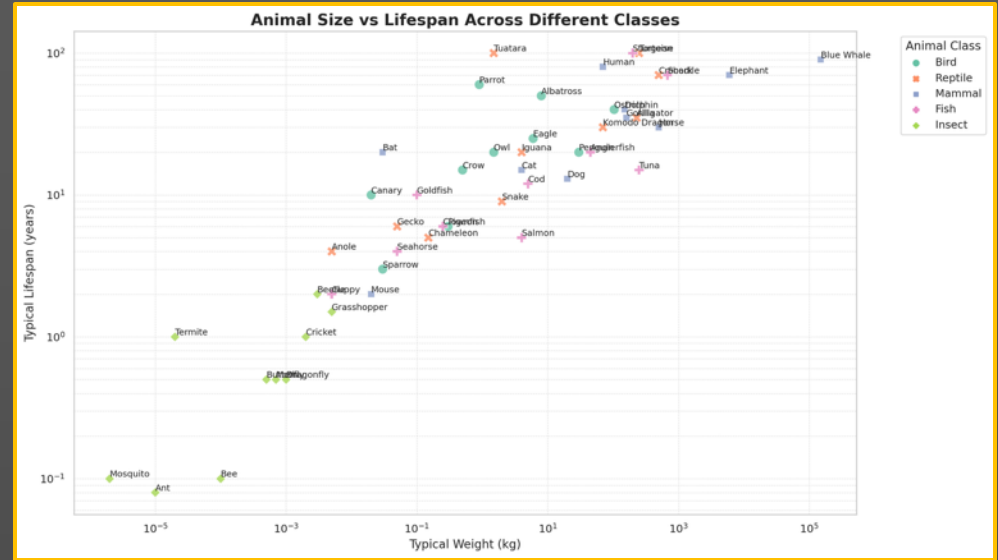
Table 2: Second Meeting

Room	Person 1	Person 2	Person 3	Person 4
1	E	I	M	Q
2	U	Y	CC	B
3	F	J	N	R
4	V	Z	DD	C
5	G	K	O	S
6	W	AA	EE	D
7	H	L	P	T
8	X	BB	FF	A

A black and white portrait of a man with a prominent mustache, wearing a dark suit jacket, a white shirt, and a dark bow tie. He is looking directly at the camera with a serious expression. The background is dark and out of focus.

Design a Philosophy Course

Researcher



Administrator



Plan for membership Renewal



Image: Global Focus

Societal Impacts

Jobs

Environment

Psychological

Bad Actors

Existential Threats

Health and Care



Redbox



**Chat with
Government
Documents**



**Generate
Summaries**



Security + Safety

<https://ai.gov.uk/projects/redbox/>



Law



Medicine



Software Development



Accountancy & Administration

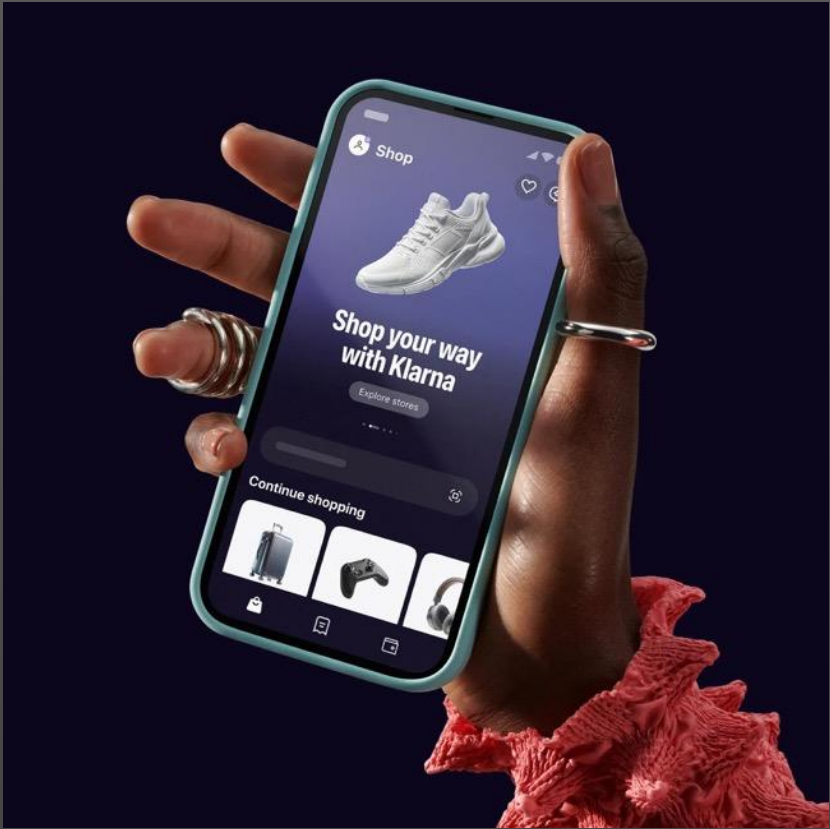


Image from Klarna, <https://www.klarna.com/uk/>

Summary

1. The amount of electrical power required to support current Generative AI is growing dramatically and is unsustainable
2. More efficient algorithms, smaller language models and hardware technology improvements will dramatically reduce energy needs. May be $1/10^{\text{th}}$ or $1/100^{\text{th}}$ current usage.
3. Whether these improvements reduce energy needs depends on how much workload moves from humans to machines.
4. Current AI Chip roadmap suggest energy consumption per chip increasing 10 fold between 2025 and 2032
5. A human uses 22 times as much energy as Generative AI.

Optical GPU chips will use between $1/10^{\text{th}}$ and $1/100^{\text{th}}$ the power for an electronic equivalent

China has just released a prototype Optical GPU called Meteor- 1 Optical GPU uses



	Chatbot	Video Game	Golf	Person
Energy and Water usage per person per hour				

Energy in Watts	50+30=80	300	97	1,820
Equiv No. of Laptops	1.6	6	2	36



Implication: The Operation Energy costs of a UK Human are 22 x higher than an AI Chatbot

Water in Litres	0.06	0.5	42	6
				
				10 pints

Usage costs only not /construction/ build / equipment costs

1. Minimise the use of your laptop or computer

Your laptop uses more power than your ChatGPT prompt

2. Use a search engine that doesn't use AI

Add the term -ai to your google search or www.qwant.com is hosted in the EU or Microsoft's Bing www.bing.com

1. Use ChatGPT mini

ChatGPT mini* on paid for plans uses an $1/8^{\text{th}}$ the power of ChatGPT

2. Don't create videos

10 secs of video uses over 200 times the power of a 1 hr chat

* Free users will be switched to ChatGPT mini when the daily allowance of ChatGPT runs out

71 How much Energy does a UK Resident Consume?

Domestic



Car



Workplace



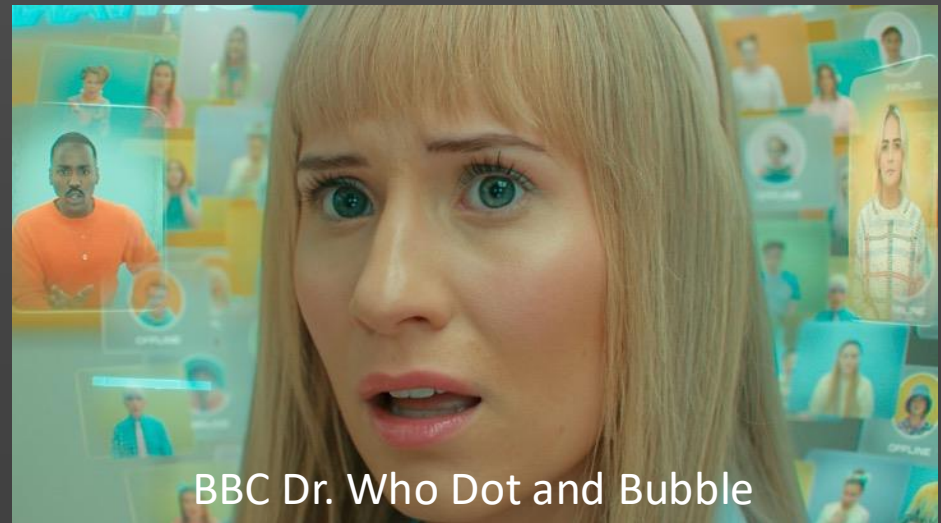
Food



	Domestic	Car	Workplace	Food	Total
Annual Energy kWh	6,174	8,110	600	1,061	15,944
Annual Cost	£739	£1,119	£427	£2,253	£4,538

Hours in a year: $365 \times 24 = 8,760$

Hourly energy usage of a human = 1,820 watts



BBC Dr. Who Dot and Bubble

Disinformation and Misinformation



Autonomous Weapons



Cybersecurity Threats - M&S





National Cyber
Security Centre

[Go to ncsc.gov.uk >](https://www.ncsc.gov.uk)

Cyber **Aware** 

<https://www.ncsc.gov.uk/cyberaware/home>



<https://www.euronews.com/2024/04/02/ukraine-apparently-mounts-deepest-drone-strike-inside-russia-to-date>



A Russian Krasukha-4 electronic warfare system.
The Ministry of Defence of the Russian Federation

Bad Actor



James' Bond
Blofeld
Spectre

Societal Collapse



Dr. Who
Dot & Bubble

Misaligned AI



Wall-e

Elderly Care



Aids for disabilities

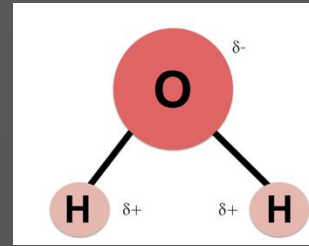


Parkinsons



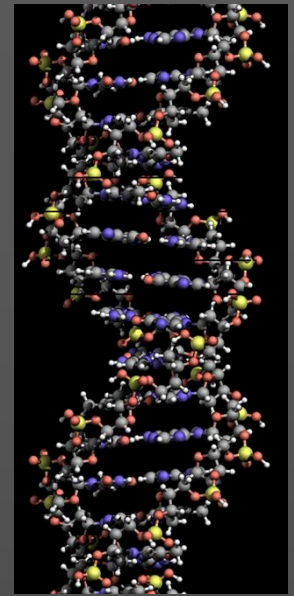


Ant Colony: - Collective intelligence



Water

Molecules: - Life



DNA

Enriched
Uranium:-
Nuclear
Explosion



Deception

Sycophancy

Sandbagging

Persuasiveness

Threatening users

Gaslighting users



Large Language Models

The cat sat on the

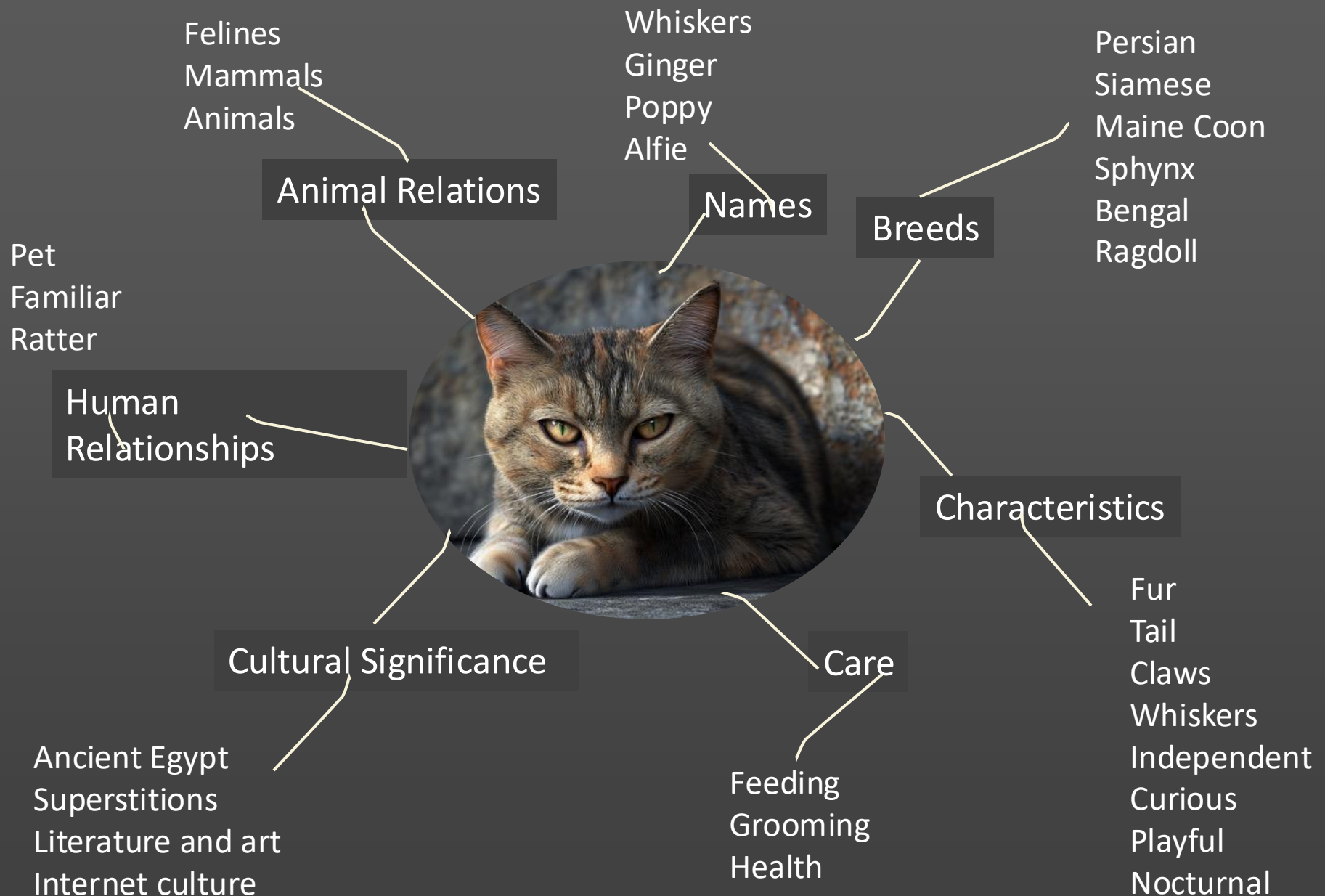


It was the best of times it was





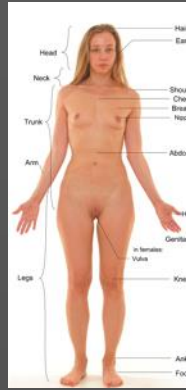






Queen

-



woman

+



man

=



King

shirt - man + woman =

London- England + Japan =

oink - pig + cow =

oink - pig + santa =

					probability
The	cat	climbed	up	the	tree 50%
					roof 25%
				wall 15%	
				ladder 7%	
				waterfall 0.1%	



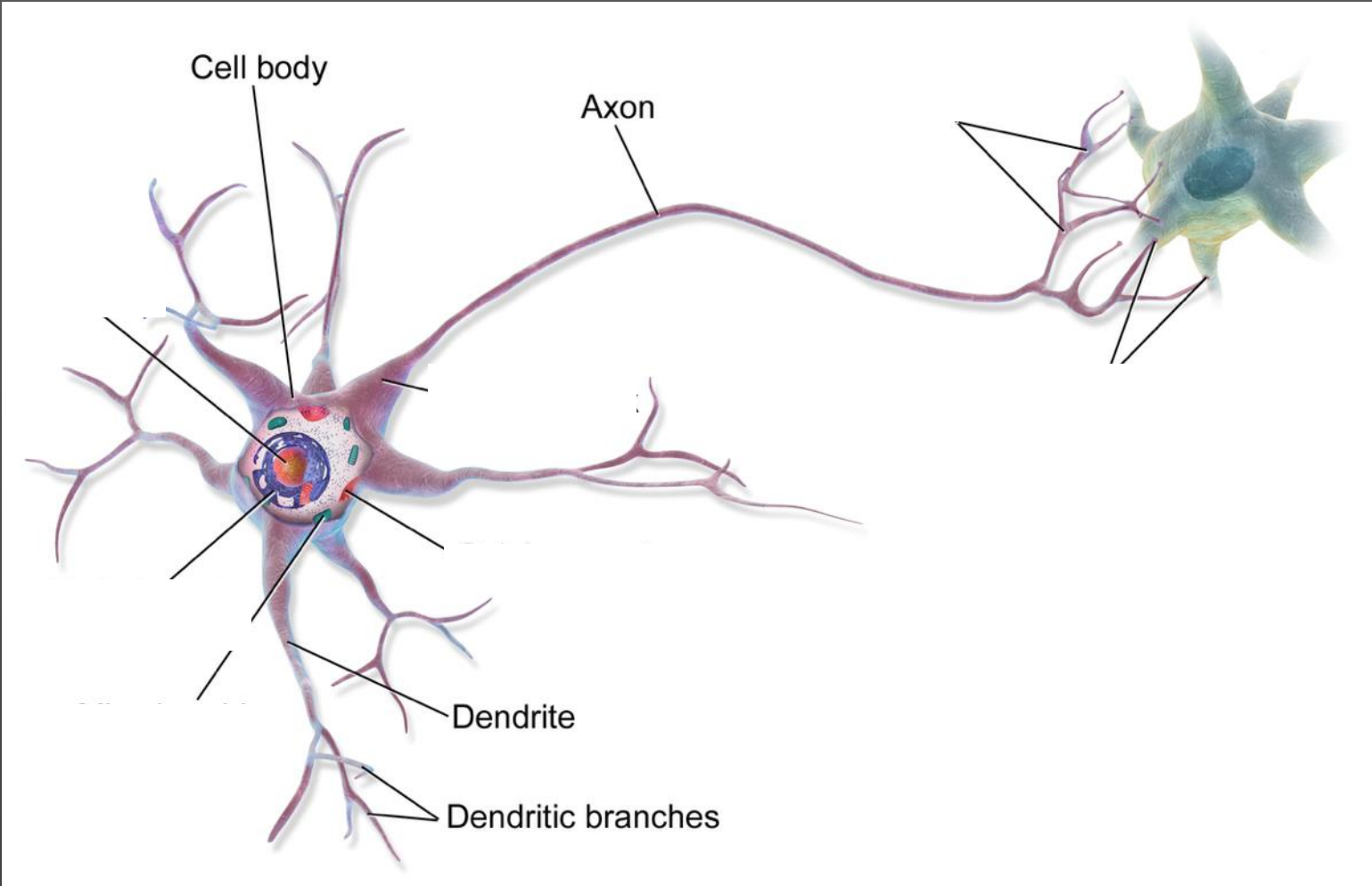
						probability
The	cat	climbed	up	the	tree	50%
					roof	25%
					wall	15%
					ladder	7%
					waterfall	0.1%

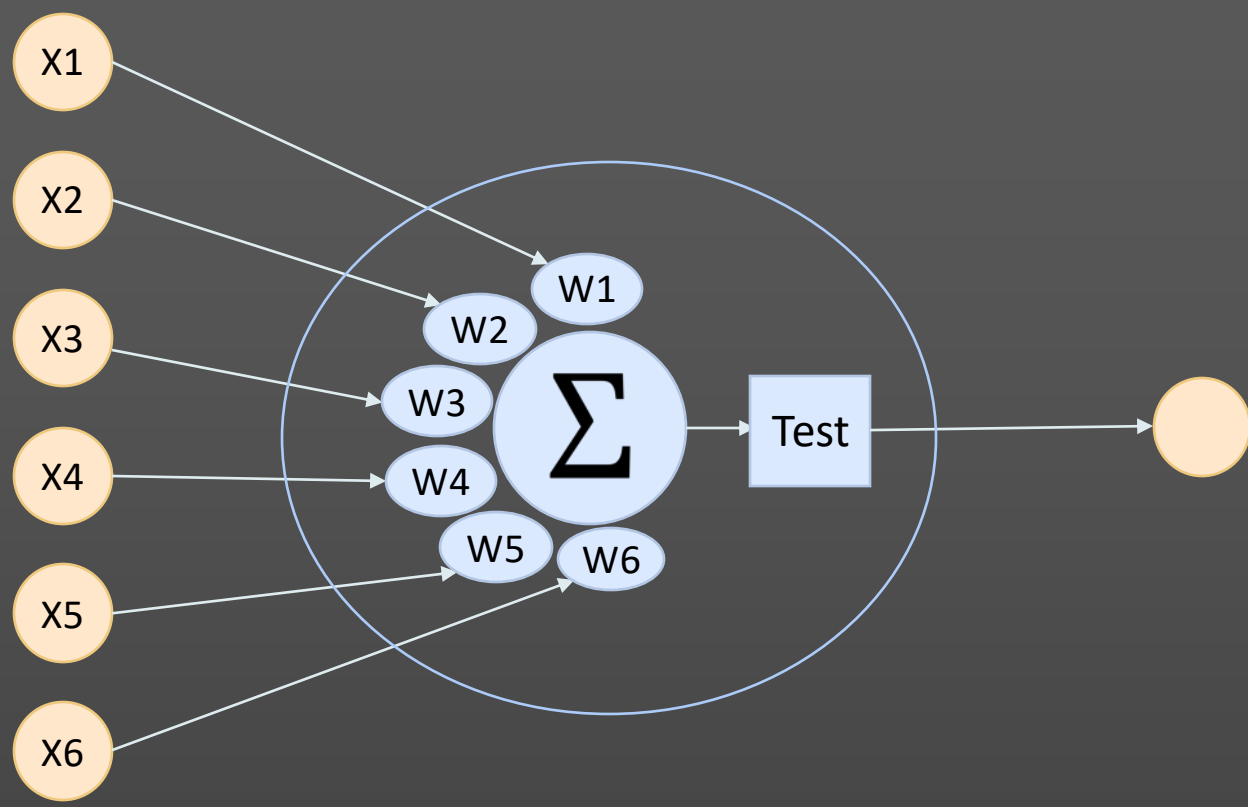


Creativity versus Accuracy

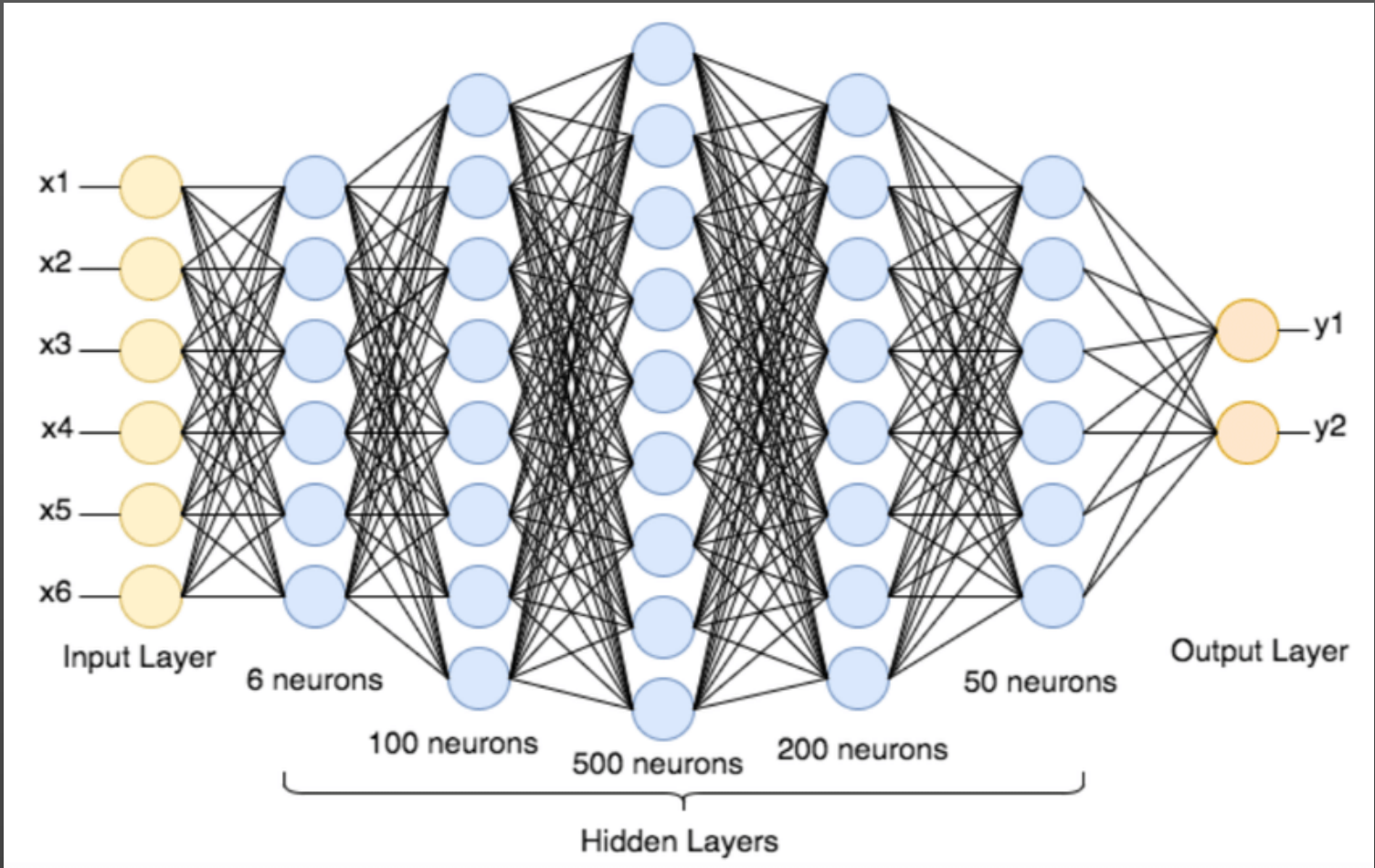
Creative: "Explore different possibilities"
"Be creative and diverse"

Accurate: "Be as precise and factual as possible"
"Be concise and focused"





GPT1	1 billion parameters	Rat brain	100 billion connections
GPT3	100 billion parameters		
GPT4	1,000 billion parameters	Human brain	100,000 billion connections





Are trained on data - not programmed

Once trained they don't need the internet

Process numbers not words

Use probabilities to pattern match for the next likely word

They do not understand the physical world

No understanding of cause and effect

No understanding of truth



Julia has two sisters and one brother. How many sisters does her brother Martin have?



1. Julia has two sisters - so there are three girls in total.
2. Julia also has one brother, named Martin.
3. Altogether, there are four siblings: three girls and one boy (Martin).
4. Therefore, Martin has three sisters.



Data Curation

Training;-Mitigate and Promote bias

Fine Tuning

Prompt Processing

Output filtering