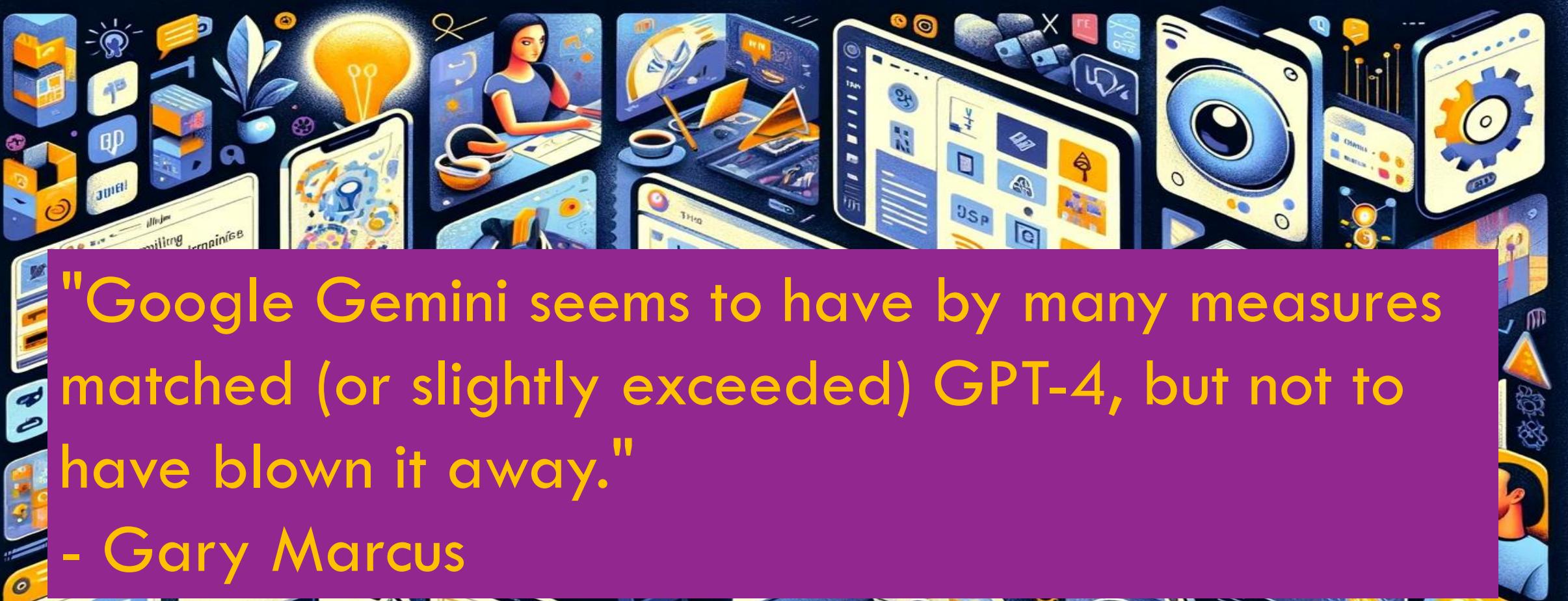


HOW TO REALLY USE GOOGLE GEMINI ADVANCED

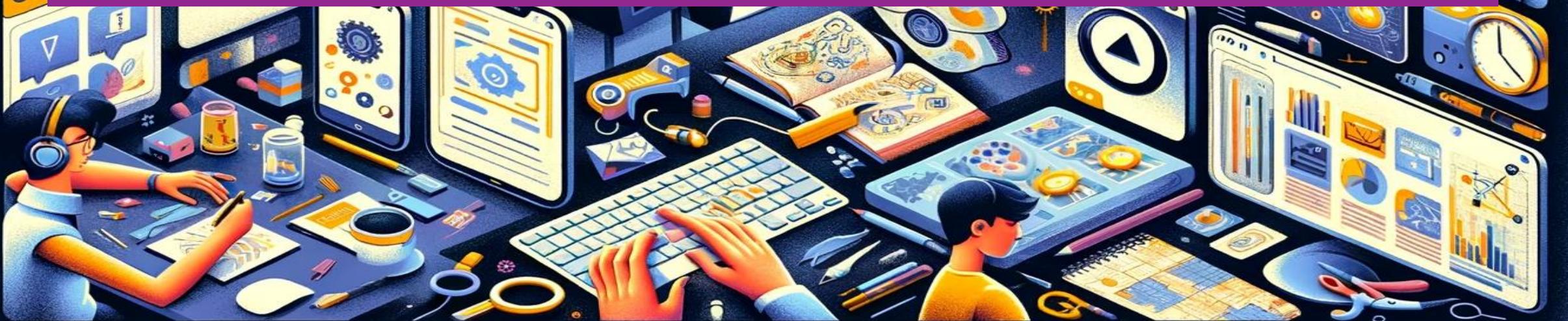


ReallyEasy.AI



"Google Gemini seems to have by many measures matched (or slightly exceeded) GPT-4, but not to have blown it away."

- Gary Marcus



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 Get 10% back in Store credit on Google Store purchases	 Get 10% back in Store credit on Google Store purchases	 Get 10% back in Store credit on Google Store purchases	 Get 10% back in Store credit on Google Store purchases
Includes <ul style="list-style-type: none">✓ 2 TB of storage✓ Gemini Advanced✓ Available soon: Gemini in Gmail, Docs, and more✓ All other benefits in the Premium plan	Google One includes <ul style="list-style-type: none">✓ 5 TB of storage✓ Access to Google experts✓ Share with up to 5 others✓ More Google Photos editing features✓ Extra member benefits✓ 10% back in the Google Store✓ Google Workspace premium features✓ VPN for multiple devices✓ Monitor the dark web	Google One includes <ul style="list-style-type: none">✓ 10 TB of storage✓ Access to Google experts✓ Share with up to 5 others✓ More Google Photos editing features✓ Extra member benefits✓ 10% back in the Google Store✓ Google Workspace premium features✓ VPN for multiple devices✓ Monitor the dark web	Google One includes <ul style="list-style-type: none">✓ 20 TB of storage✓ Access to Google experts✓ Share with up to 5 others✓ More Google Photos editing features✓ Extra member benefits✓ 10% back in the Google Store✓ Google Workspace premium features✓ VPN for multiple devices✓ Monitor the dark web



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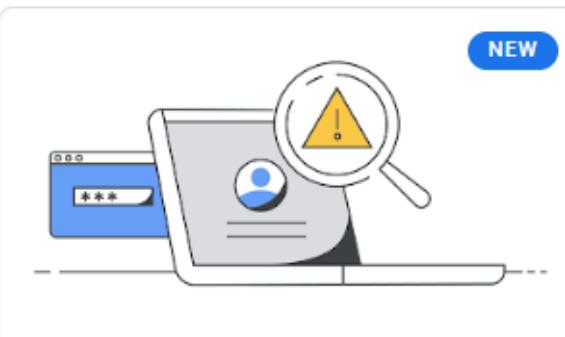


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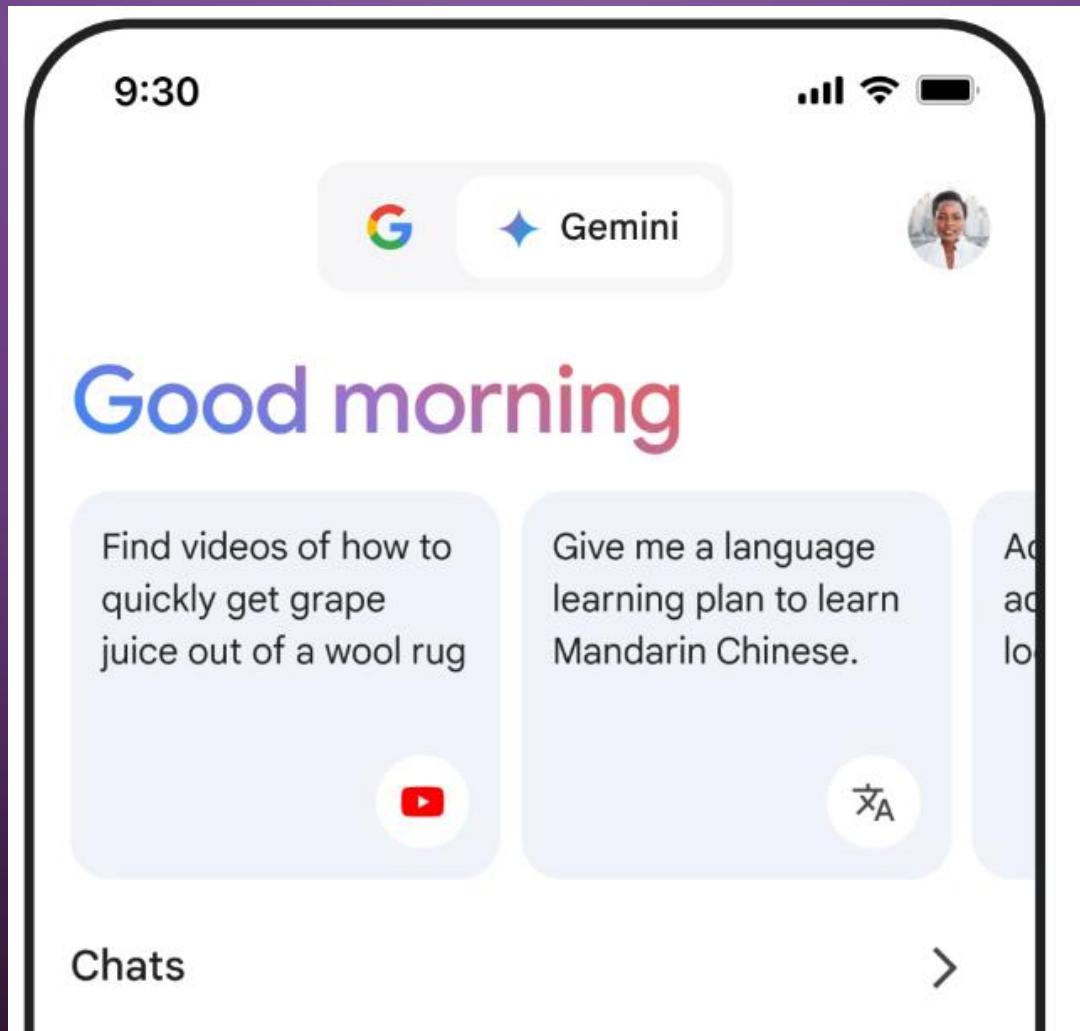
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WHY
GOOGLE
GEMINI
ADVANCED?



BETTER THAN CHATGPT?

Gemini: A Family of Highly Capable Multimodal Models

	Gemini Ultra	Gemini Pro	GPT-4	GPT-3.5	PaLM 2-L	Claude 2	Inflection-2	Grok 1	LLAMA-2
MMLU Multiple-choice questions in 57 subjects (professional & academic) (Hendrycks et al., 2021a)	90.04% CoT@32*	79.13% CoT@8*	87.29% CoT@32 (via API**)	70% 5-shot	78.4% 5-shot	78.5% 5-shot CoT	79.6% 5-shot	73.0% 5-shot	68.0%***
GSM8K Grade-school math (Cobbe et al., 2021)	94.4% Maj1@32	86.5% Maj1@32	92.0% SFT & 5-shot CoT	57.1% 5-shot	80.0% 5-shot	88.0% 0-shot	81.4% 8-shot	62.9% 8-shot	56.8% 5-shot
MATH Math problems across 5 difficulty levels & 7 subdisciplines (Hendrycks et al., 2021b)	53.2% 4-shot	32.6% 4-shot	52.9% 4-shot (via API**)	34.1% 4-shot (via API**)	34.4% 4-shot	—	34.8%	23.9% 4-shot	13.5% 4-shot
BIG-Bench-Hard Subset of hard BIG-bench tasks written as CoT problems (Srivastava et al., 2022)	83.6% 3-shot	75.0% 3-shot	83.1% 3-shot (via API**)	66.6% 3-shot (via API**)	77.7% 3-shot	—	—	—	51.2% 3-shot
HumanEval Python coding tasks (Chen et al., 2021)	74.4% 0-shot (PT****)	67.7% 0-shot (PT****)	67.0% 0-shot (reported)	48.1% 0-shot	—	70.0% 0-shot	44.5% 0-shot	63.2% 0-shot	29.9% 0-shot
Natural2Code Python code generation. (New held-out set with no leakage on web)	74.9% 0-shot	69.6% 0-shot	73.9% 0-shot (via API**)	62.3% 0-shot (via API**)	—	—	—	—	—
DROP Reading comprehension & arithmetic. (metric: F1-score) (Dua et al., 2019)	82.4 Variable shots	74.1 Variable shots	80.9 3-shot (reported)	64.1 3-shot	82.0 Variable shots	—	—	—	—
HellaSwag (validation set) Common-sense multiple choice questions (Zellers et al., 2019)	87.8% 10-shot	84.7% 10-shot	95.3% 10-shot (reported)	85.5% 10-shot	86.8% 10-shot	—	89.0% 10-shot	—	80.0%***
WMT23 Machine translation (metric: BLEURT) (Tom et al., 2023)	74.4 1-shot (PT****)	71.7 1-shot	73.8 1-shot (via API**)	—	72.7 1-shot	—	—	—	—

THE JURY IS STILL OUT

Benchmark	GPT-4 Prompt	GPT-4 Results	Gemini Ultra Results
MMLU	Medprompt+	90.10%	90.04%
GSM8K	Zero-shot	95.3%	94.4%
MATH	Zero-shot	68.4%	53.2%
HumanEval	Zero-shot	87.8%	74.4%
BIG-Bench-Hard	Few-shot + CoT	89.0%	83.6%
DROP	Zero-shot + CoT	83.7%	82.4%
HellaSwag	10-shot	95.3%	87.8%

EXPLORING THE INTERFACE



SPEED



TEXT



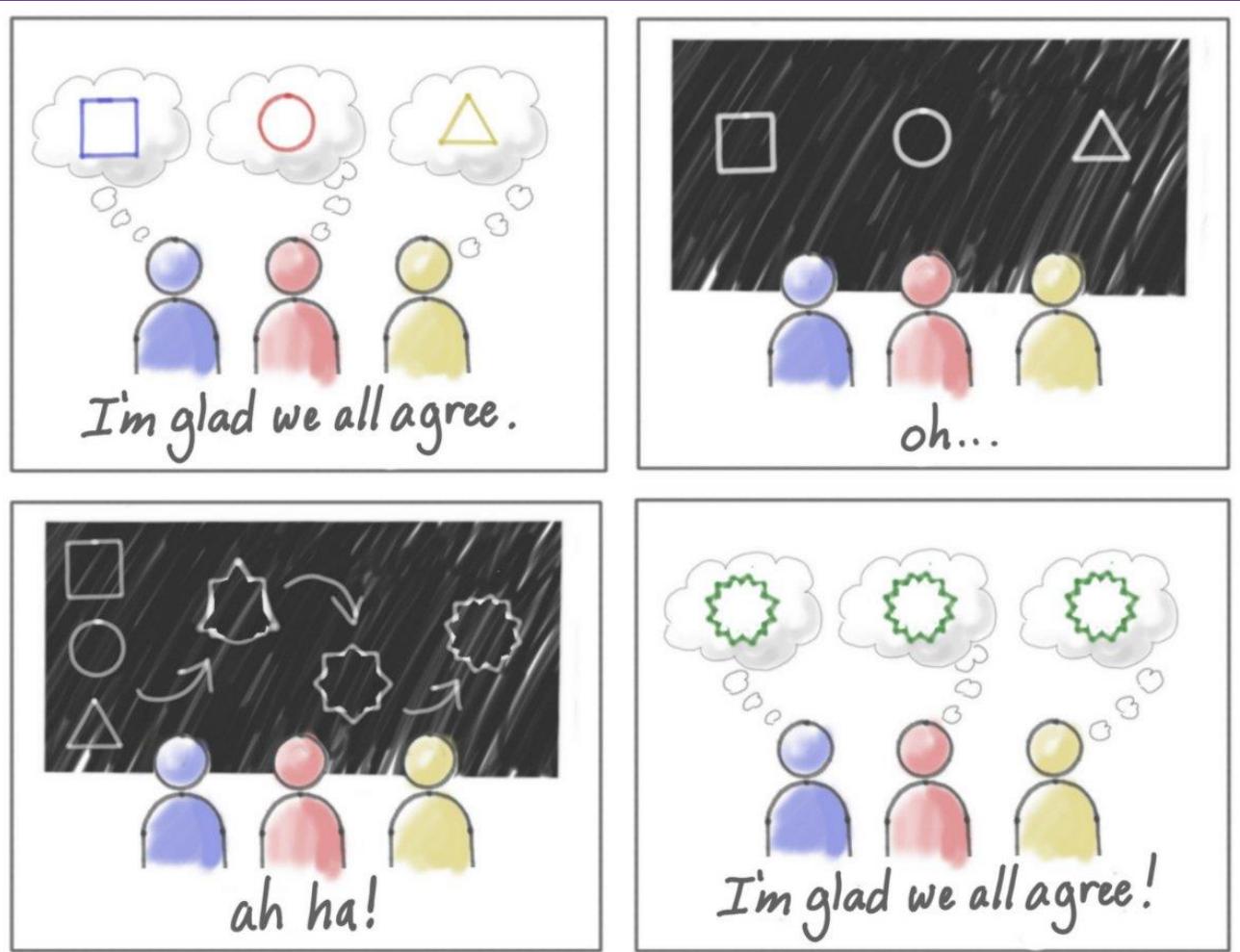
VISION



IDENTIFICATION



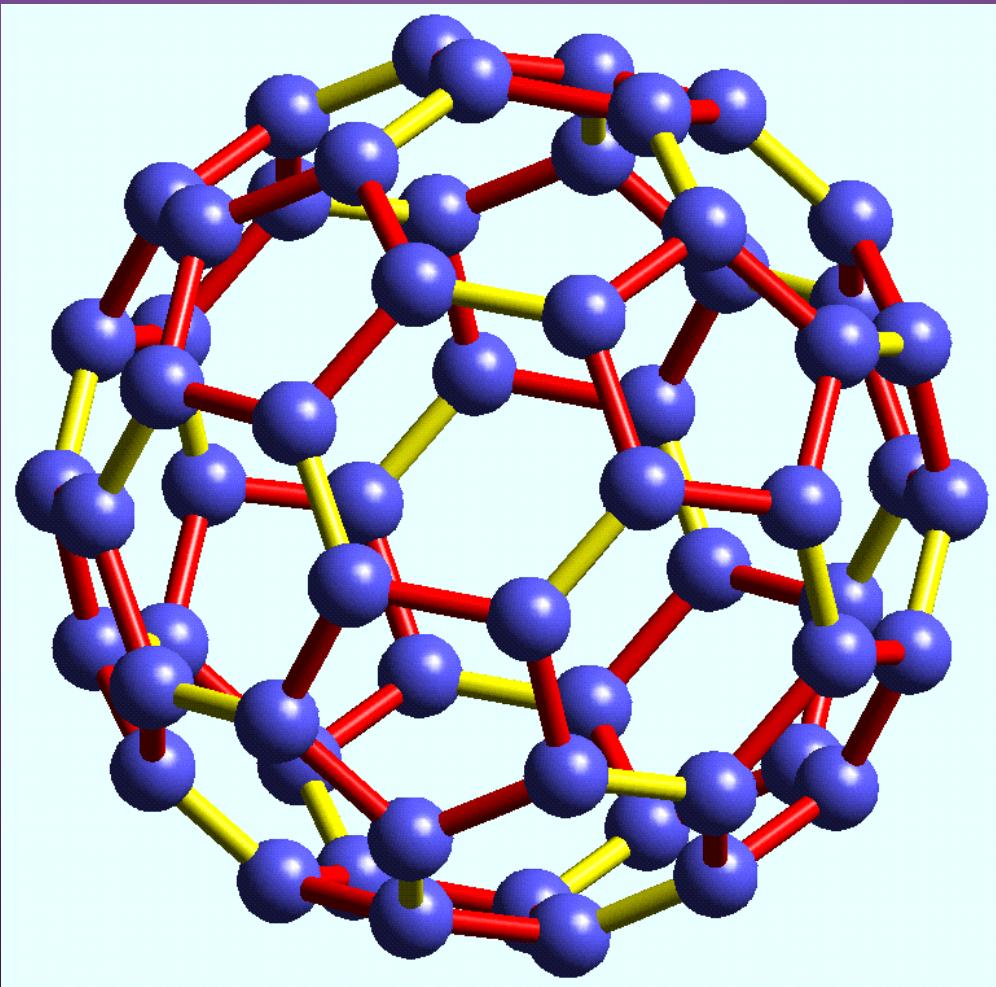
ABSTRACT IDEAS



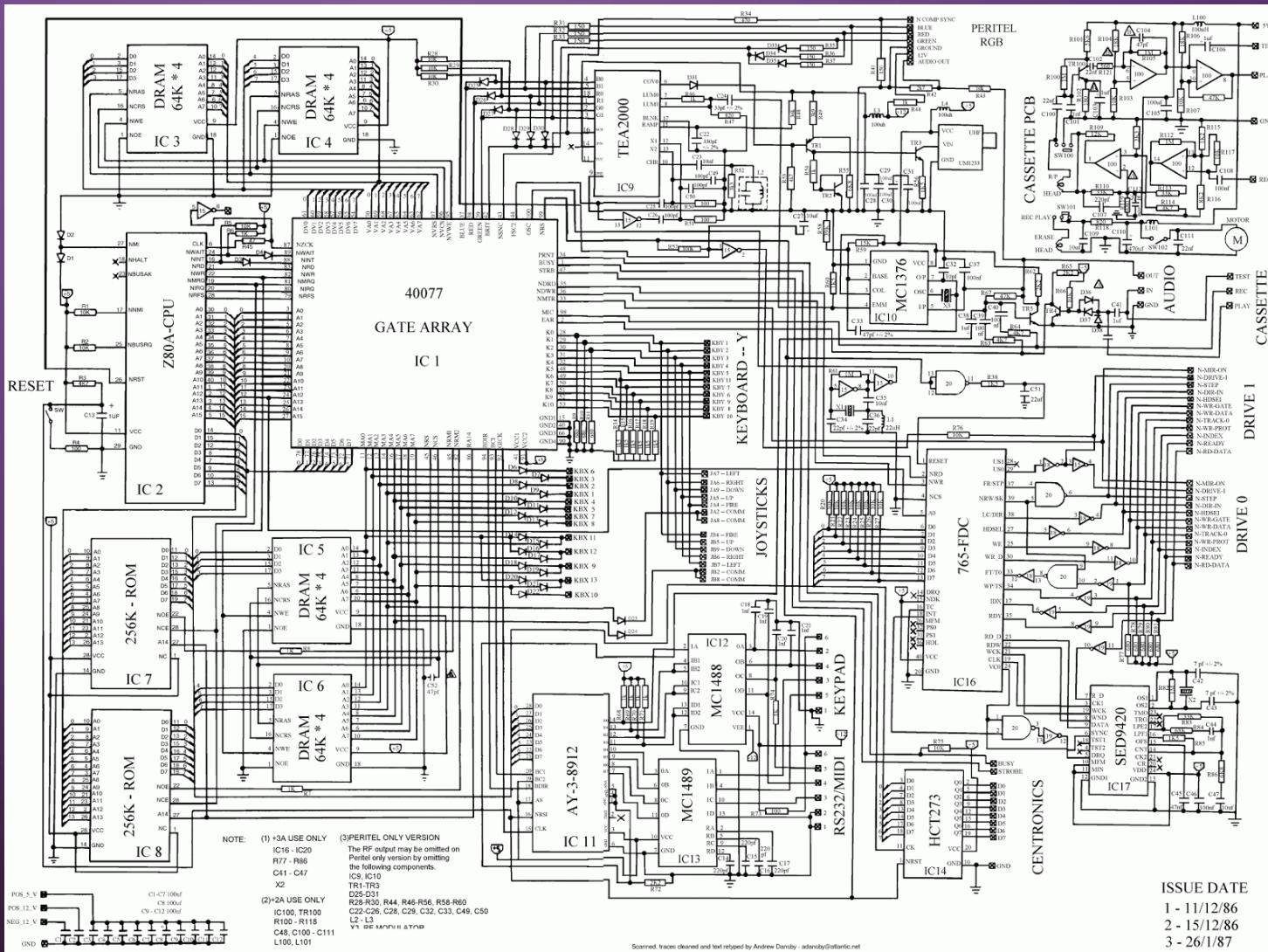
MEDICAL



CHEMISTRY



ELECTRONICS



PARKING



HOMEWORK

73) The opposite table shows different values of lengths, cross-sectional areas and resistivities for wires that are made of different materials:

	Wire length l (m)	Cross-sectional area A (cm^2)	Resistivity $\rho_e \times 10^{-4}$ ($\Omega \cdot \text{m}$)
(1)	10	0.1	0.05
(2)	5	0.5	0.25
(3)	5	0.1	0.5
(4)	0.5	0.5	0.005

(i) Which of these wires carries a current of intensity 2 A when the potential difference between its terminal equals 10 V?

- (a) Wire (1) (b) Wire (2) (c) Wire (3) (d) Wire (4)

(ii) Which of these wires gives larger amount of heat than the other wires when the same current intensity passes through them for the same time interval?

- (a) Wire (1) (b) Wire (2) (c) Wire (3) (d) Wire (4)

(iii) Which of these wires gives less thermal power than the other wires when each of them is connected between the same potential difference?

- (a) Wire (1) (b) Wire (2) (c) Wire (3) (d) Wire (4)

74) A wire of resistance R consumes an electric power P_w when the potential difference between its terminals is V, if the wire is drawn uniformly so that its length gets doubled while keeping the potential difference between its terminals V, it will consume an electric power of

- (a) $2 P_w$ (b) $4 P_w$ (c) $\frac{P_w}{2}$ (d) $\frac{P_w}{4}$

75) * A wire of length 2 m has a cross-sectional area of $4 \times 10^{-6} \text{ m}^2$, when the potential difference between its terminals was 20 V, the consumed power through it was 10 W, so:

(i) The resistivity of the wire's material equals

- (a) $2 \times 10^{-7} \Omega \cdot \text{m}$ (b) $10^{-5} \Omega \cdot \text{m}$
(c) $8 \times 10^{-5} \Omega \cdot \text{m}$ (d) $4 \times 10^{-6} \Omega \cdot \text{m}$

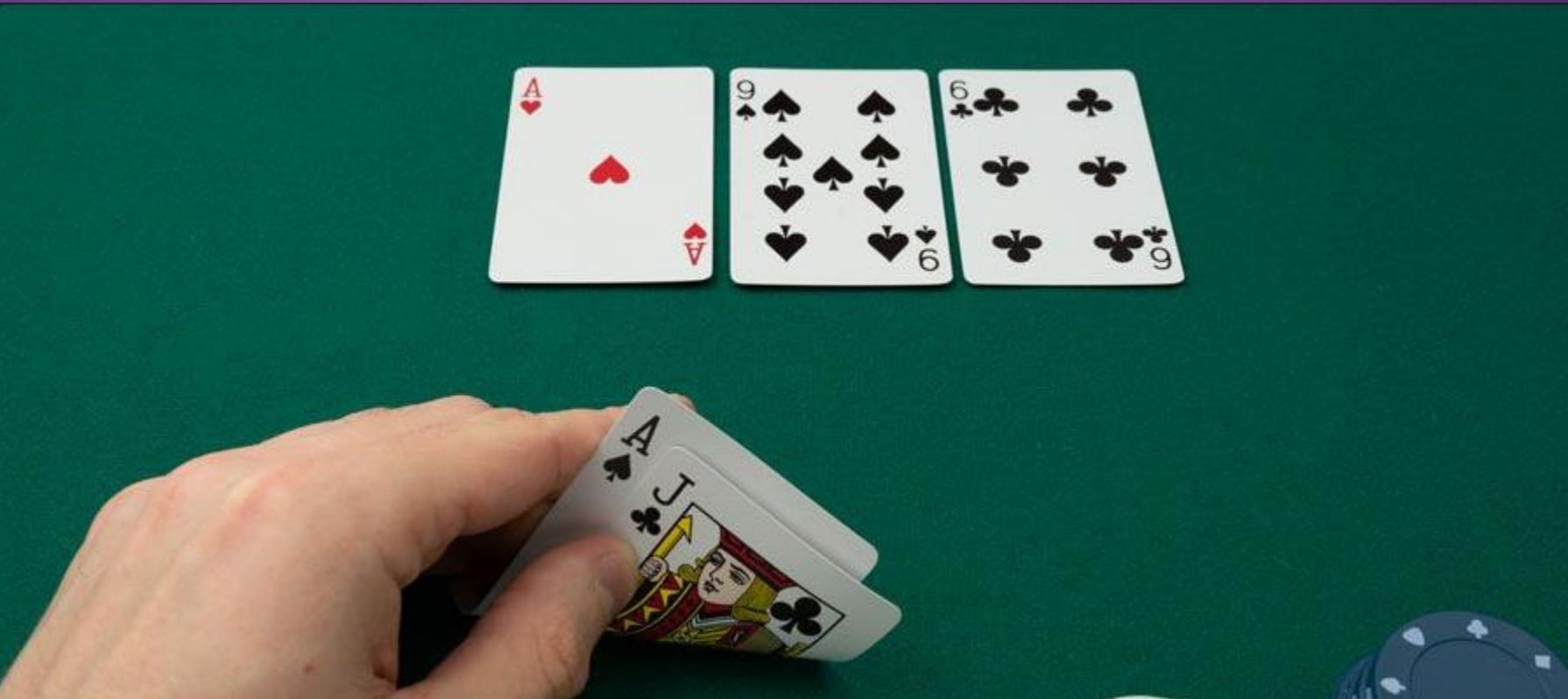
(ii) The number of electrons that pass through a cross-section of the wire in one minute equals

- (Where: $e = 1.6 \times 10^{-19} \text{ C}$)
(a) 9.741×10^{17} electrons (b) 6.435×10^{18} electrons
(c) 2.314×10^{19} electrons (d) 1.875×10^{20} electrons

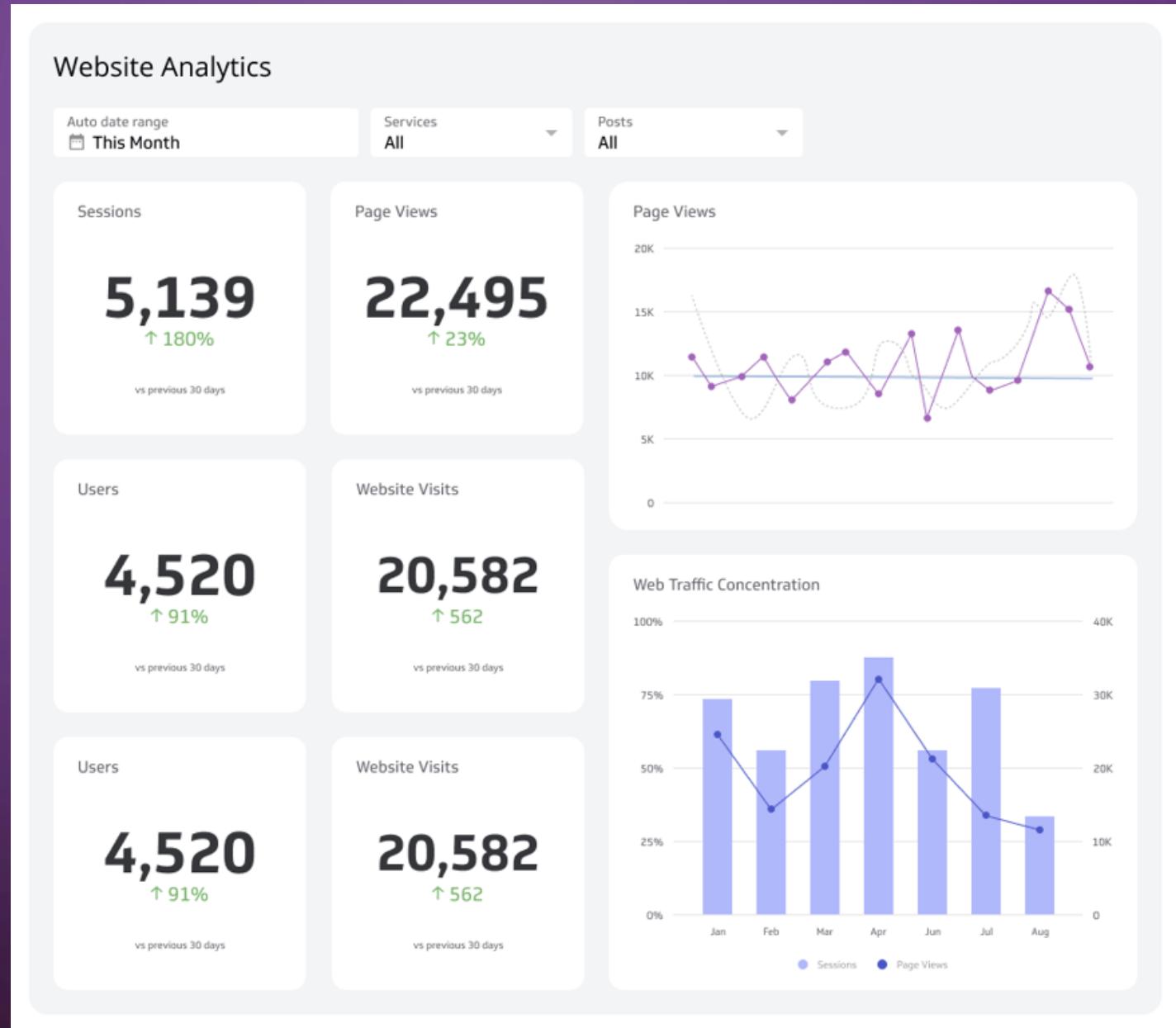
COOKING



POKER



CODE



BROWSING

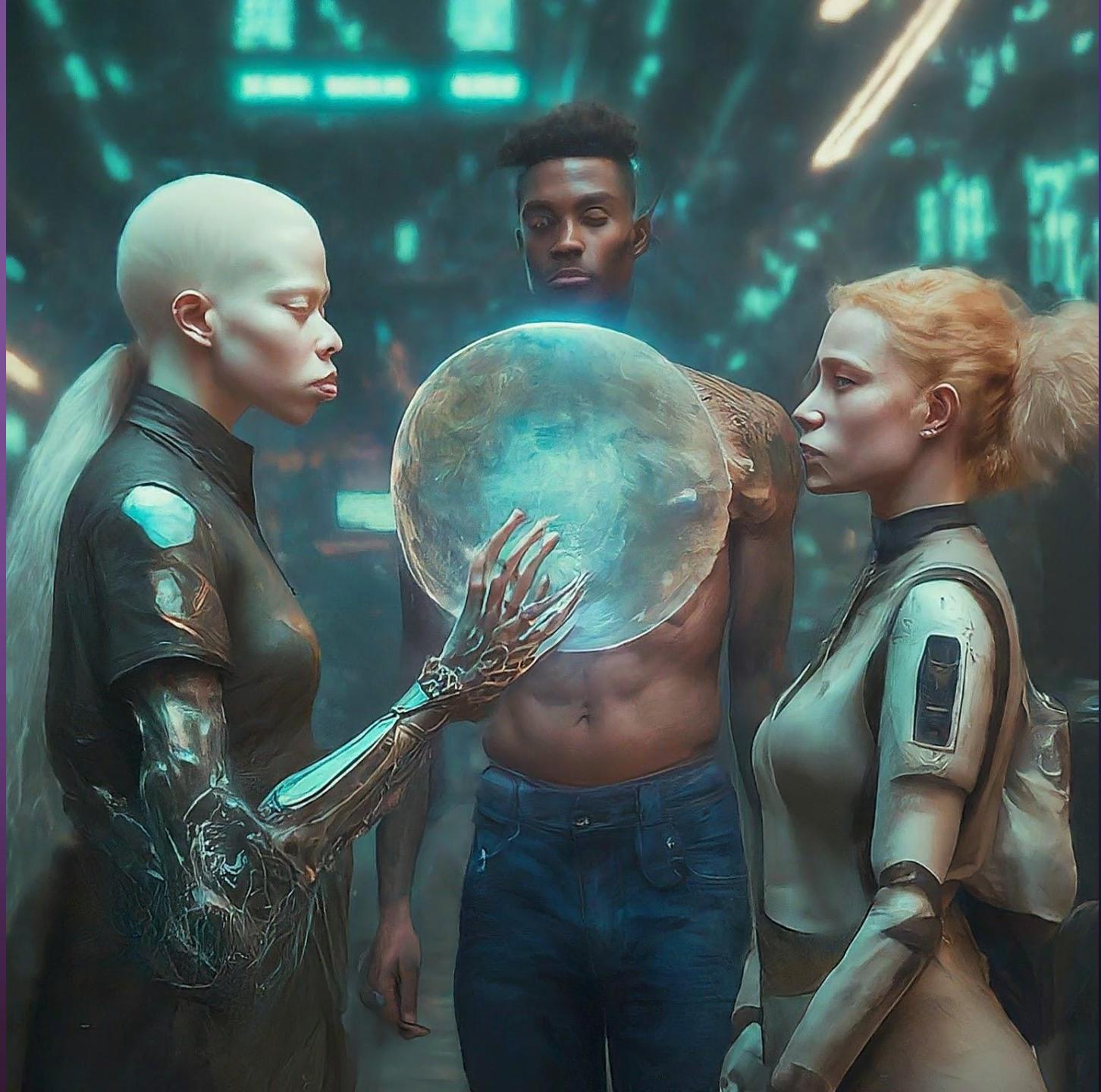
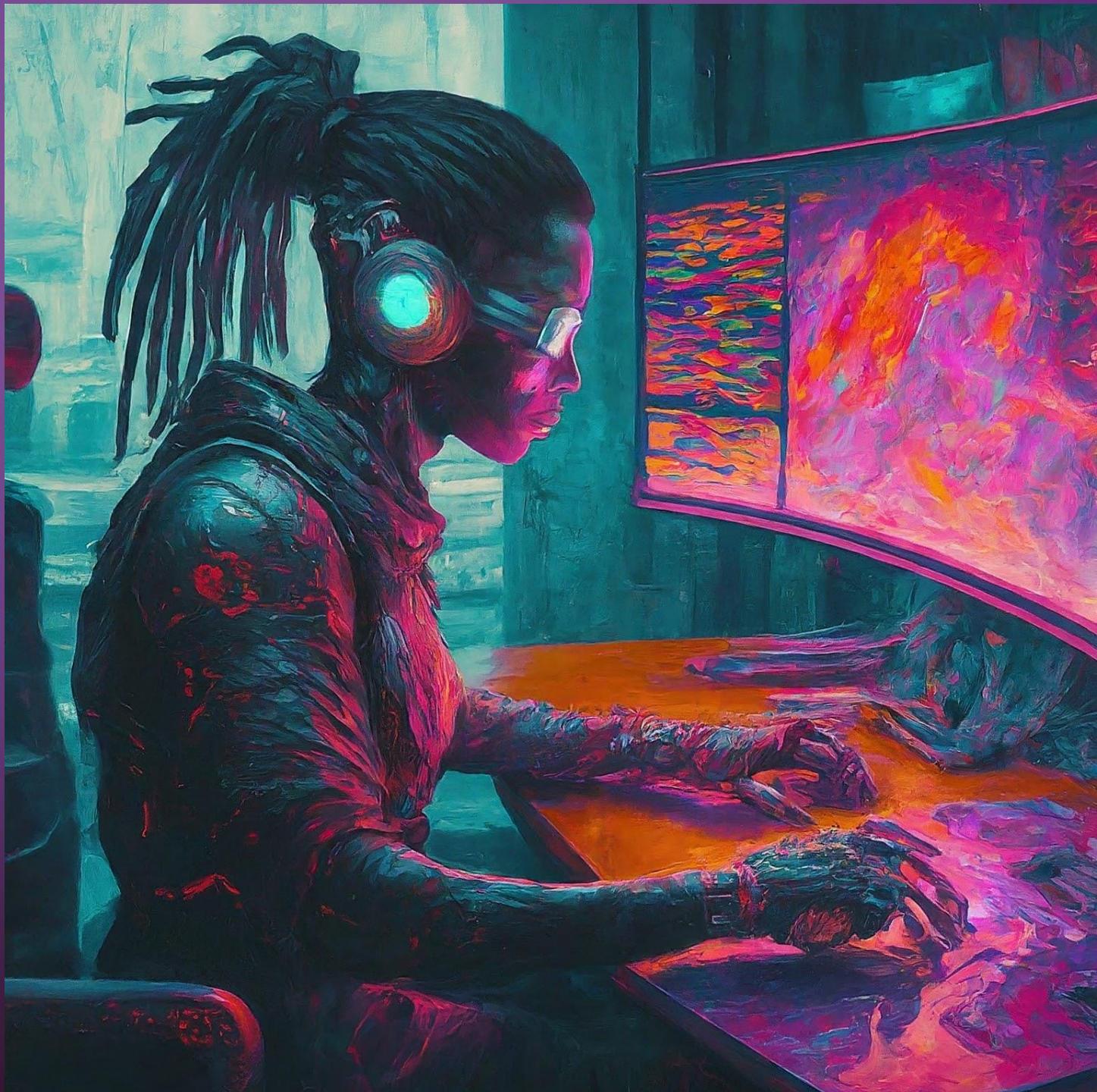




IMAGE GENERATION



DATA ANALYSIS



EXTENSIONS



