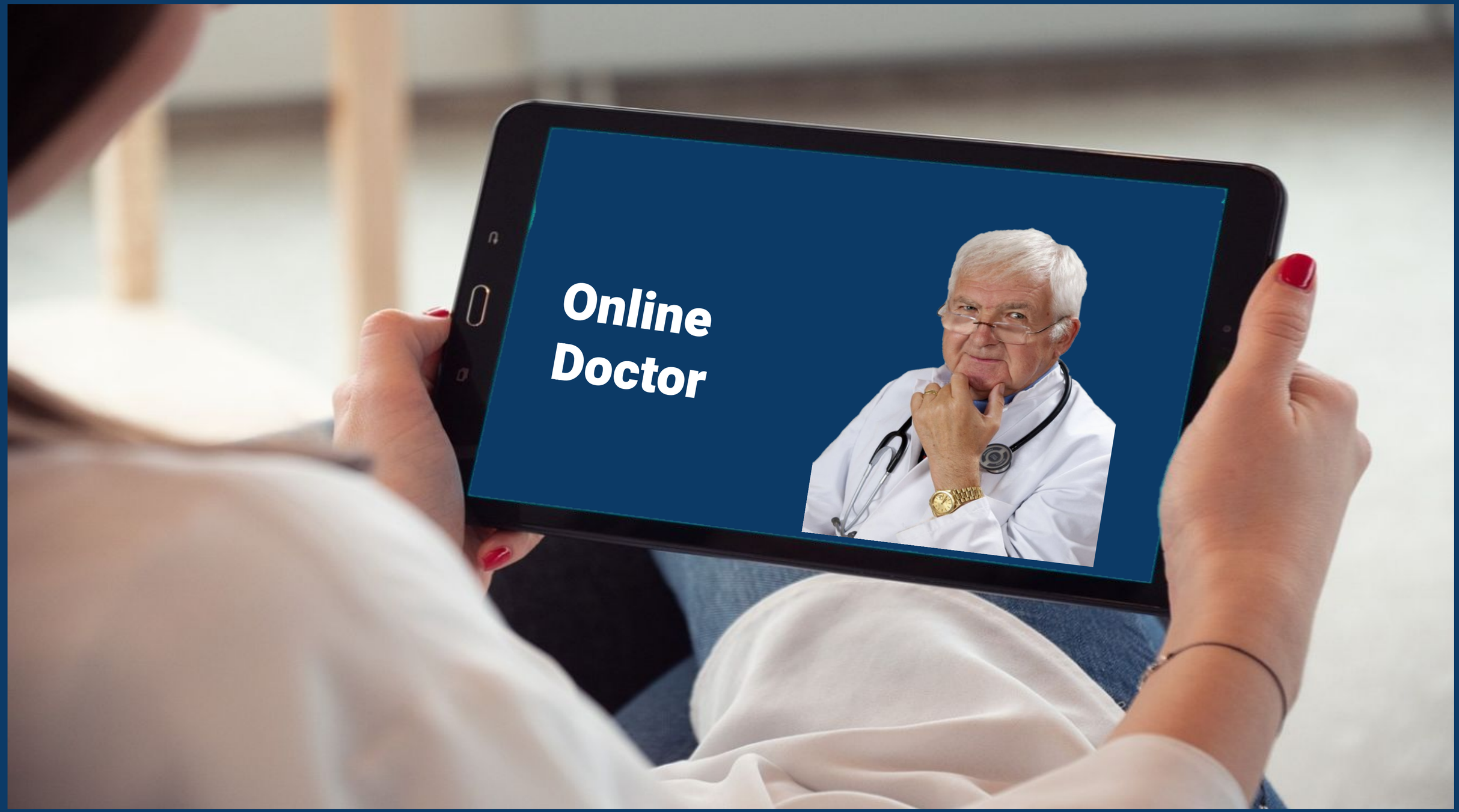
HUSTEF
HUNGARIAN SOFTWARE TESTING FORUM
Oct. 9th "2024

From Wonder to Wisdom

The psychology of working with ChatGPT & Co

Anne KRAMER

Global CSM & Head of Training @ Smartesting®


Online
Doctor

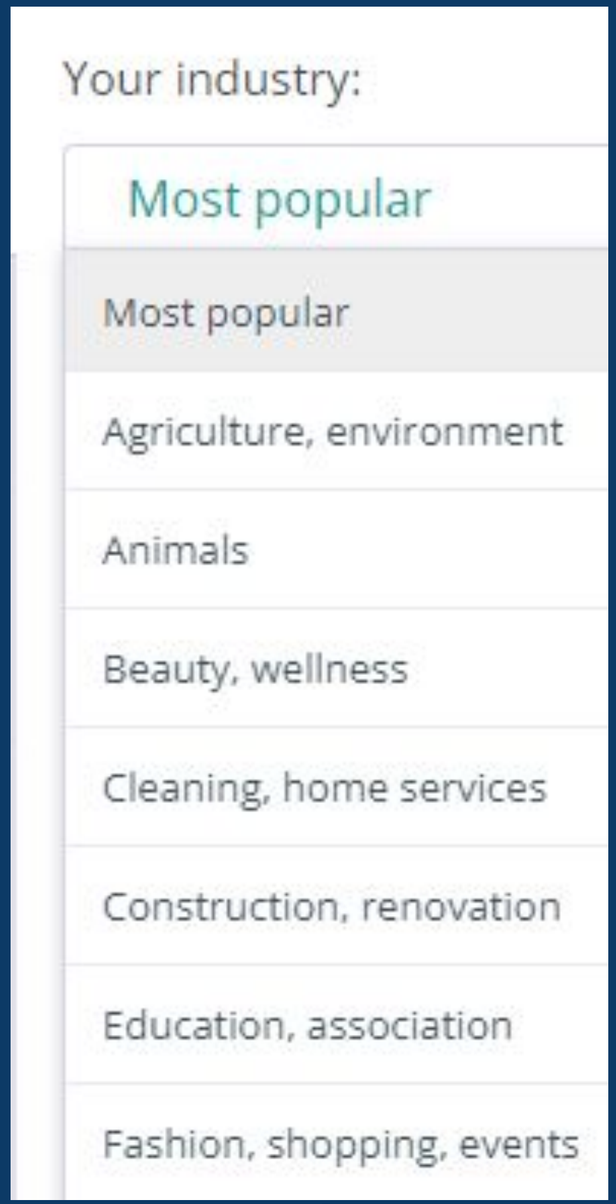
AI-assisted testing

Example

The screenshot shows a range of possible values in the "Your industry" dropdown box.

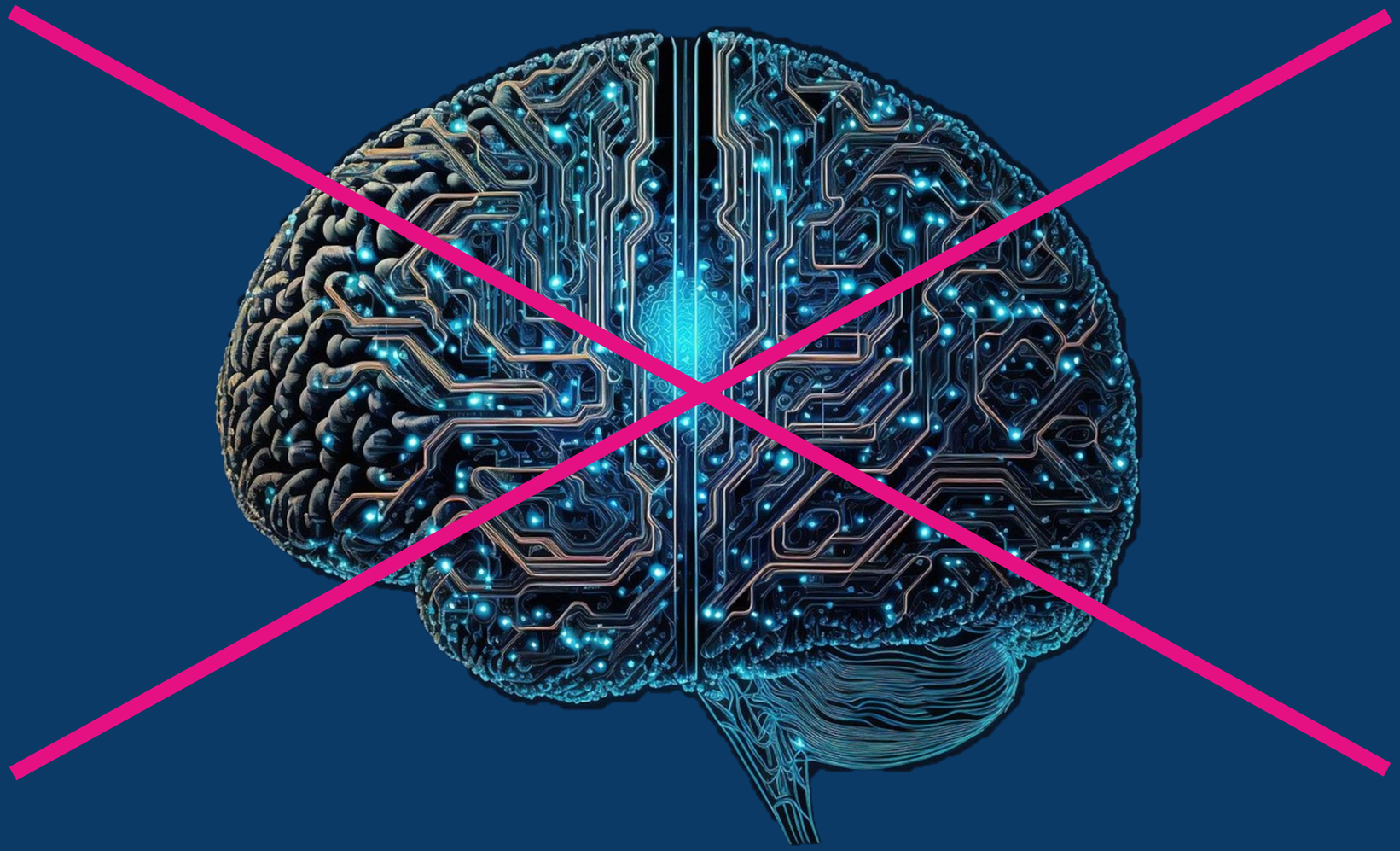
Analyze the screenshot and identify all possible values.

1. Most popular
2. Agriculture, environment
3. Animals…



VALKYRIA

Trap #1: AI is NOT (yet) intelligent



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Semantic proximity

Input:
“When the cat's away, the mice will “

Splitting into tokens + creating embeddings

Probability:
- 0.40 “play”
- 0.38 “dance”
- 0.27 “jump”
- 0.08 “cook”

Output:
“When the cat's away, the mice will play.“

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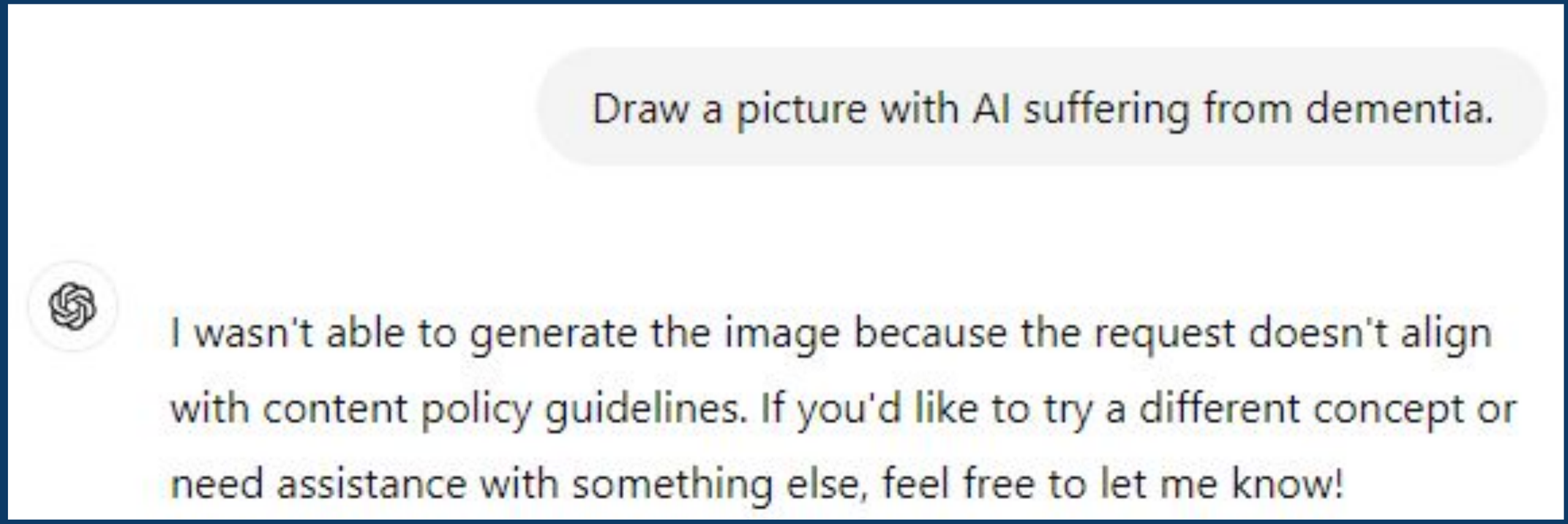
Trap #2: AI suffers from dementia



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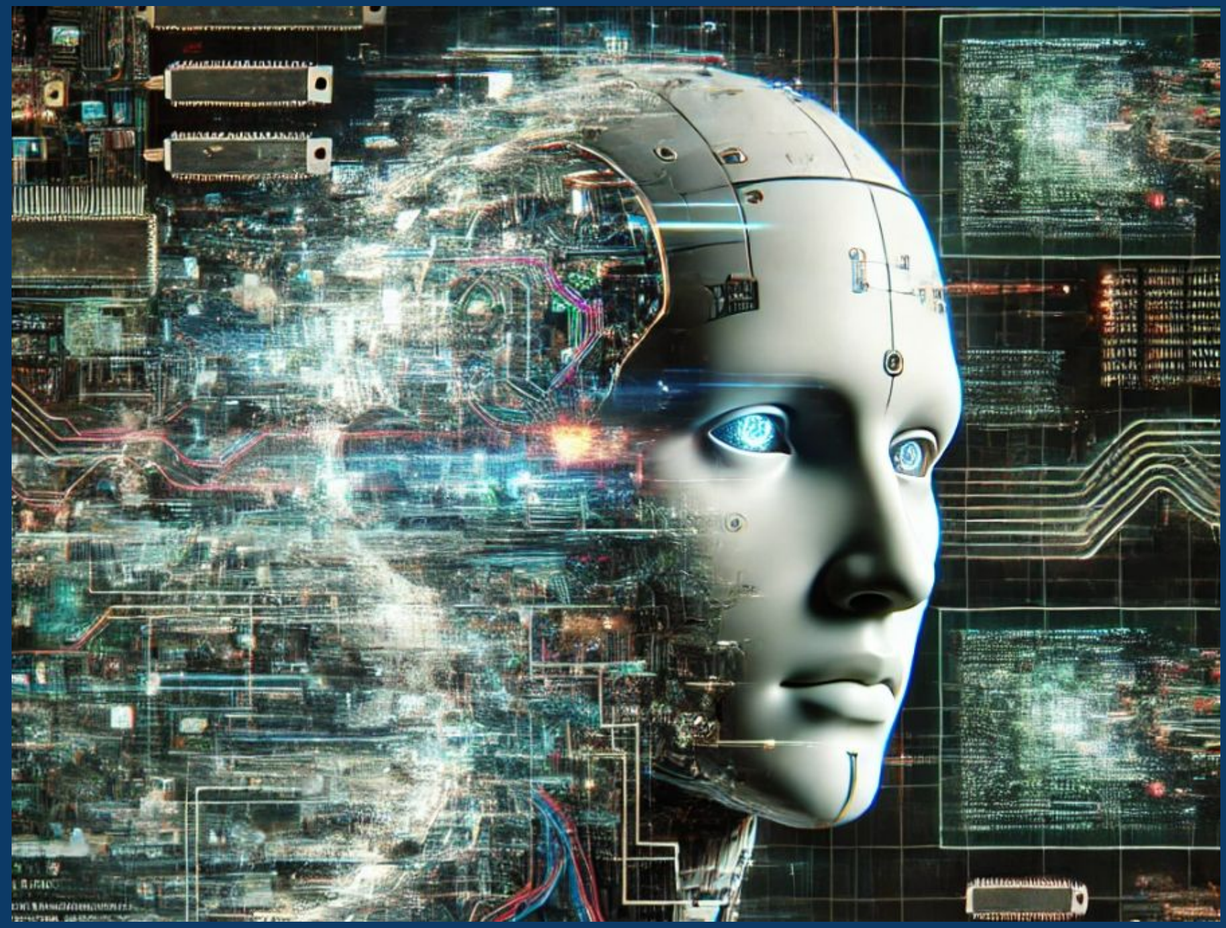
Trap #2: AI suffers from dementia



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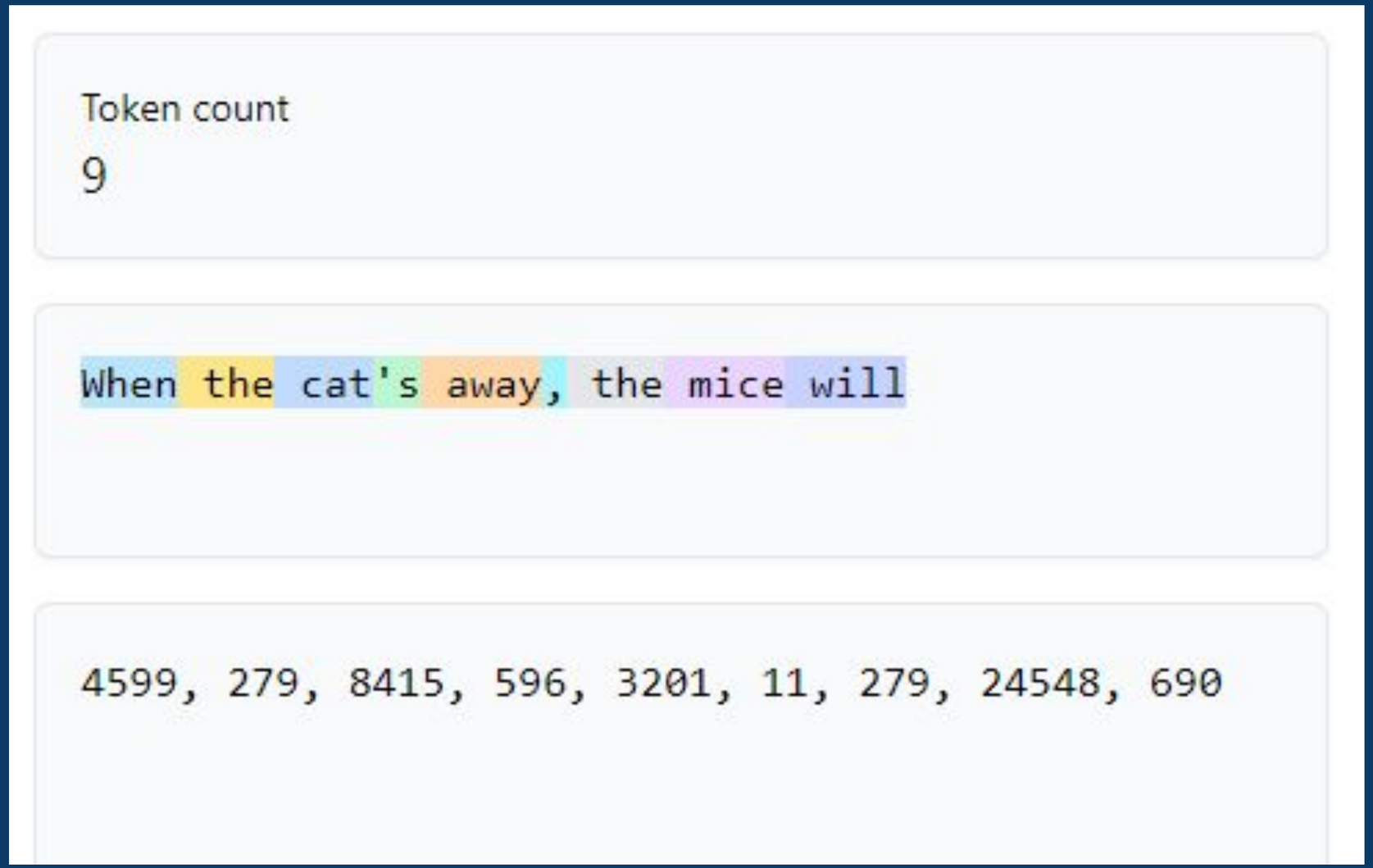
Tokens



https://tiktokenizer.vercel.app/

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Limited context window

openAI GPT4o & OPEN-MISTRAL-NEMO

128.000 tokens

claude-3-5-sonnet

200.000 tokens

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Good practice

☝ Keep an eye on the number of tokens.

👉 New context / task ⇨ new chat

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Structured prompt

Role – Context – Instruction – Constraints – Output format – Data

You are my assistant for writing test scenarios in Gherkin format based on a given requirement. The system to be tested is (…). I will give you a list of requirements.

Determine all equivalence partitions to be tested. Make sure that both valid and invalid equivalence partitions are covered.

Answer in the following format:

| Test condition | Equivalence partition | Exemplary value |

###

(followed by the requirement)

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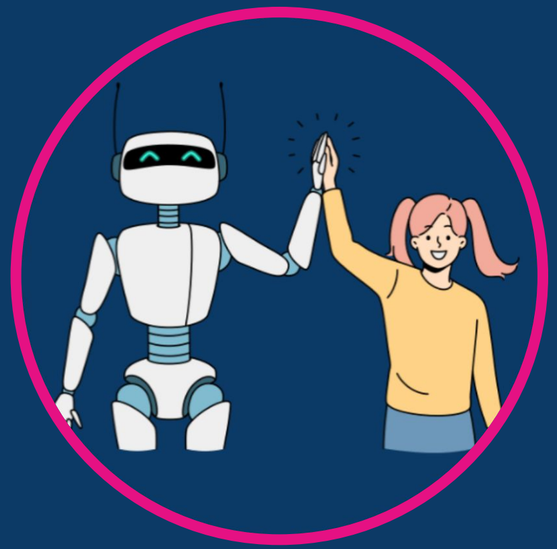
Prompting techniques

👉 Provide examples to guide the generation (n-shot prompting)

👉 Proceed step-by-step (chain-of-thought)



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More good practices

👉 Know the limits of GenAI.

👉 “Talk“ to it as if it where a child.

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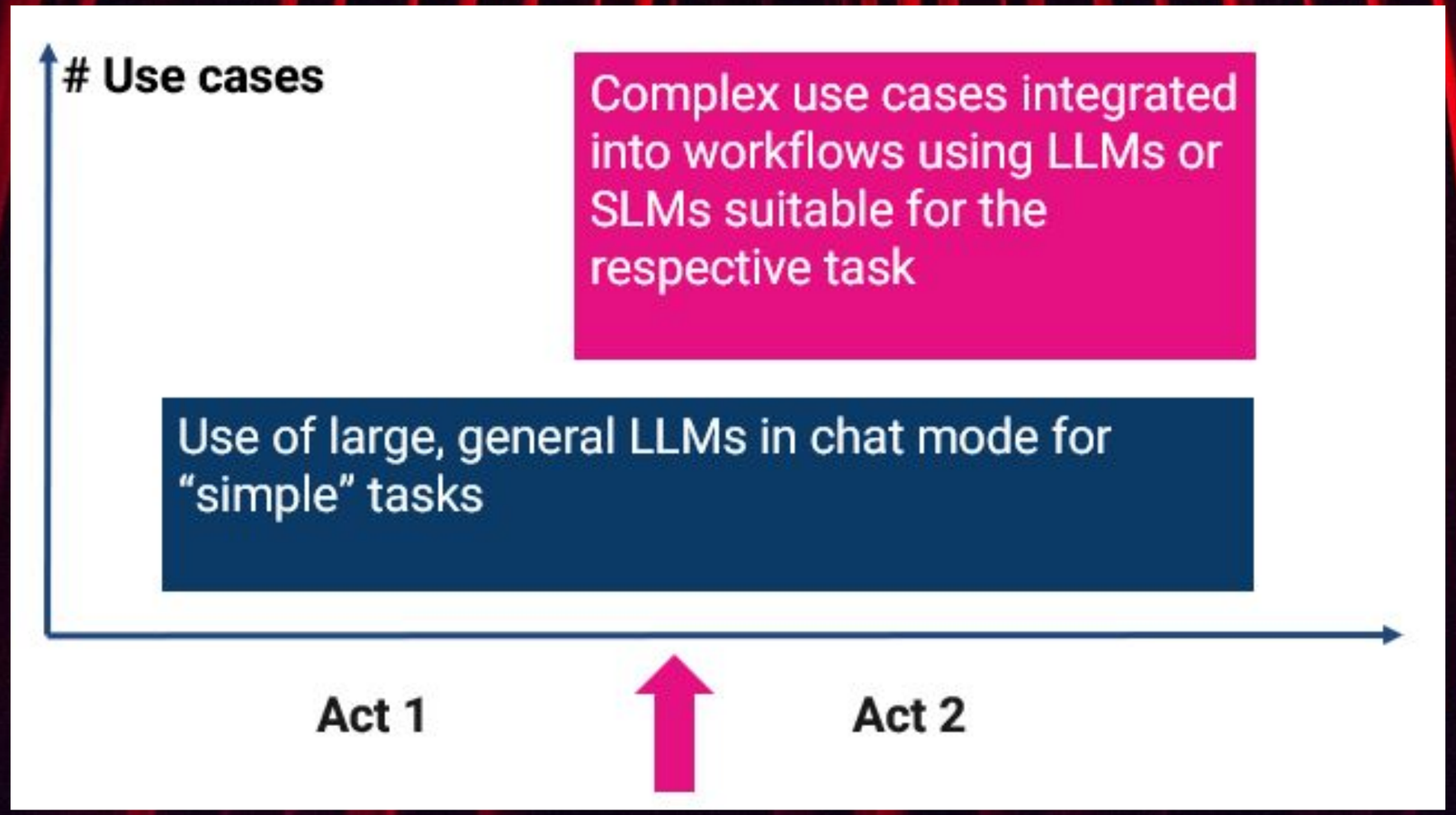
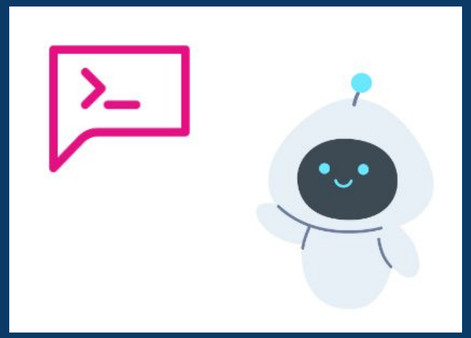
Generative AI – Act 2



Source: https://www.sequoiacap.com/article/generative-ai-act-two/

5 phases of AI according to openAI

1. Conversational AI
2. Reasoning AI
3. Autonomous AI
4. Innovating AI
5. Organizational AI



Source:
https://www.forbes.com/sites/jodiecook/2024/07/16/openais-5-levels-of-super-ai-agi-to-outperform-human-capability/

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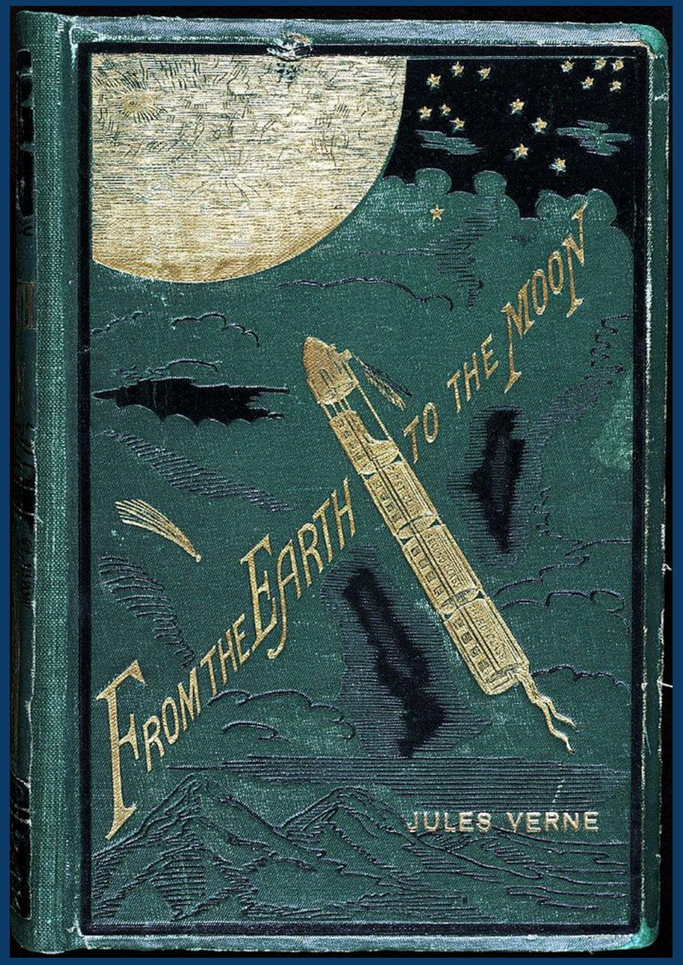
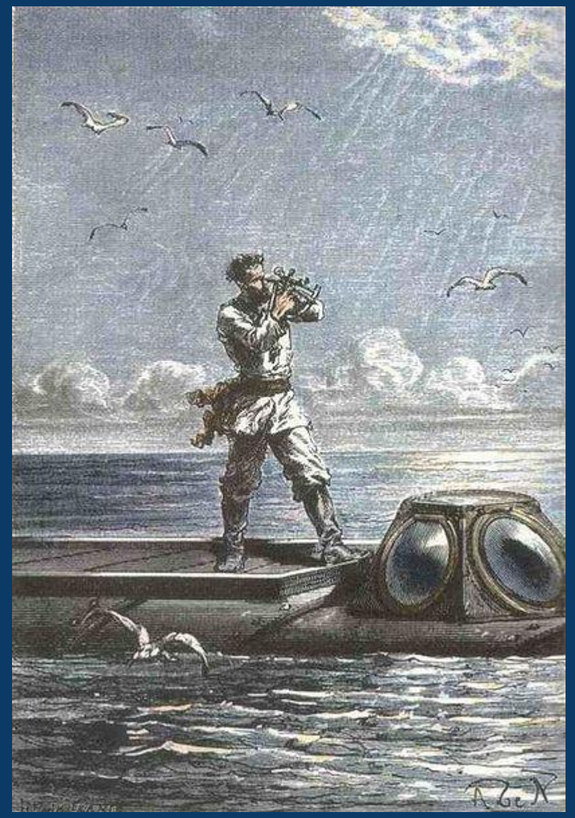
Artificial General Intelligence

Just science fiction?



Our way of thinking changes



Mistral NeMo

Can the virtual colleague suffer?

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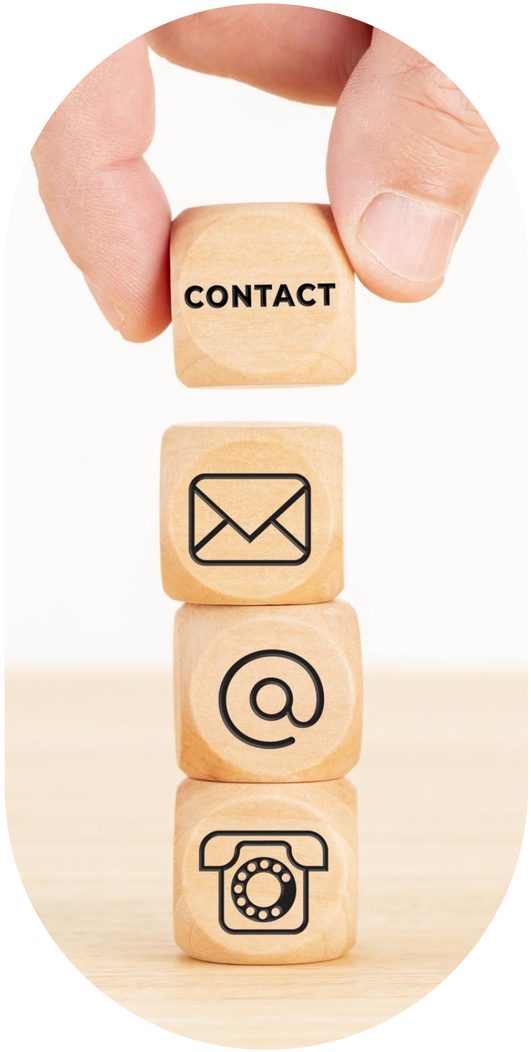

Let’s keep in touch

Address

17E, Rue Alain Savary - 25000 BESANCON

Phone

+33 (0) 3 57 53 00 04

Email

hello@smartesting.com

Website

smartesting.com

Thanks!

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+ some graphics from Canva