

Conscious AI – Mission (Im)Possible — Buddhist and Artificial Intelligence —

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世界の幸せをカタチにする。

Creating Peace & Happiness for the World



Musashino University

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Sati (สติ)

“The ability to be aware of what is happening in the present moment.”

In a Metacognitive perspective:
“Stage of knowing what you know.”



Sampajanya
(สัมปชญญะ)

“Clear comprehension of what you are doing and why,”
or “Wisely knowing how to act in context.”

In a Metacognitive perspective:

“Stage of knowing how to reach what you know.”

Evolution of Artificial Intelligence:

The Explanation from Three Perspectives

- **Data-driven AI**

Learning from past huge data; predicting the present based on past events
--Past Correlation--

- **From Big Data to Streaming Data**

An era is coming where only surface-level data can be observed!!
--Present Adaptation--

- **Toward Conscious AI**

Awareness of its own state, goals, and context.
--Intentional Model--

Data-driven AI

--Past correlation--

- **Markov model**

- The principles of machine learning and deep learning, such as LSTM, RNN, CNN, and Transformer, learn from past data and predict the present or future based on past events.

- **Ariyasat 4 (อริยสัจสี่) / The Four Noble Truths**

- | | |
|-------------------|---|
| Data Collection | • Dukkha (ทุกข์) :
<u>The truth of suffering.</u> Life involves suffering, dissatisfaction, and impermanence. |
| Feature Selection | • Samudaya (สมุทัย) :
<u>The origin of suffering.</u> Suffering arises from attachment, desire, and ignorance. |
| Machine Learning | • Nirodha (นิโรธ) :
<u>The cessation of suffering.</u> It is possible to end suffering by eliminating its causes. |
| LLM + Prompt | • Magga (มรรค) :
<u>The path to the cessation of suffering.</u> |

From Big data to Streaming data

--Present Adaption--

Few-shot Learning
One-shot learning
Zero-shot Learning

- Compared to “**knowledge**,” the world of “**ignorance**” is far greater.
- An era is coming when we will only be able to observe “**superficial data**”!!
⇒ Predict and model the data of ignorance. A complete model can never be created.



無知
Ignorance
อวิชชา *Avidya*



$$Wisdom \approx \frac{Knowledge}{Ignorance}$$

Wisdom is like the ratio between knowledge and ignorance

We are so exciting with today LLMs performance!!

This is because of its

- Versatility and Flexibility
- Human-Like Interaction
- Knowledge(-Like) Integration
 - Natural language guided prompt, not knowledge representation or reasoning background
- Ease of Use

Does an LLM truly possess knowledge, or does it just appear to behave intelligently?

- LLMs are not developed based on the process of language understanding.
- LLMs do not reason about occurrences by connecting to any knowledge representation of either language or the real world.
- LLMs are developed through training on massive amounts of text data using an artificial neural network.
- LLMs have the capability to compute quickly enough to provide a response within an acceptable timeframe with a proper language sequence, but there is no guarantee of the accuracy of the answers.

Toward Conscious AI

--Intentional Model--

- Daniel Kahneman, in his book *Thinking, Fast and Slow*, explains that human thinking operates mainly through two systems.
 - System 1 is the mechanism for "thinking fast," instantly handling many of the judgments we make in daily life.
 - System 2 is the mechanism for "thinking slowly and deeply," used for making reliable decisions and solving complex problems.

Factual Tests on ChatGPT 3.5 API

“Who is the founder of Musashino University?”

```
[60]: completion = openai.ChatCompletion.create(
      model="gpt-3.5-turbo",
      messages=[
        {"role": "system", "content": "Answer the question as truthfully as possible, \
and if you're unsure of the answer, say 'Sorry, I don't know.'},
        {"role": "user", "content": "Who is the founder of Musashino University?"}
      ],
      temperature = 0
    )
```

```
[61]: print(completion.choices[0].message.content)
```

The founder of Musashino University is Yasujiro Shimazu.

After factual information is supplied in the “content” parameter for the “assistant,” the model provides accurate and appropriate responses.

LLM Hallucinations

```
[64]: completion = openai.ChatCompletion.create(
      model="gpt-3.5-turbo",
      messages=[
        {"role": "system", "content": "Answer the question as truthfully as possible, \
and if you're unsure of the answer, say 'Sorry, I don't know.'},
        {"role": "assistant", "content": "In 1924, Dr. Junjiro Takakusu, a Buddhist scholar, \
founded Musashino Women's Academy within Tsukiji Honganji Temple. After that, \
he took over Chiyoda Women's College, which was run by Chiyoda Women's College, and \
opened Musashino Women's Junior College in 1950. In 1965, the predecessor Musashino \
Women's University was founded. In 2003, the school name was changed to Musashino University."},
        {"role": "user", "content": "Who is the founder of Musashino University?"}
      ],
      temperature = 0
    )
```

```
[67]: print(completion.choices[0].message.content)
```

The founder of Musashino University is Dr. Junjiro Takakusu.

Logical Tests on ChatGPT 3.5 API

```
[69]: completion = openai.ChatCompletion.create(  
    model="gpt-3.5-turbo",  
    messages=[  
        {"role": "system", "content": "The following is a quiz testing reasoning skills, please answer."},  
        {"role": "user", "content": "Let's represent a digit of 1 with 'banana' and \  
a digit of 0 with 'orange.' If the sequence 'banana, orange, orange' is equivalent \  
to 100, then what is the number represented by 'orange, banana, banana, orange, banana'?"},  
    ],  
    temperature = 0  
)
```

```
[70]: print(completion.choices[0].message.content)
```

The number represented by 'orange, banana, banana, orange, banana' can be determined by substituting the digits with their corresponding values.

Given that 'banana' represents 1 and 'orange' represents 0, we can rewrite the sequence as follows: 01011.

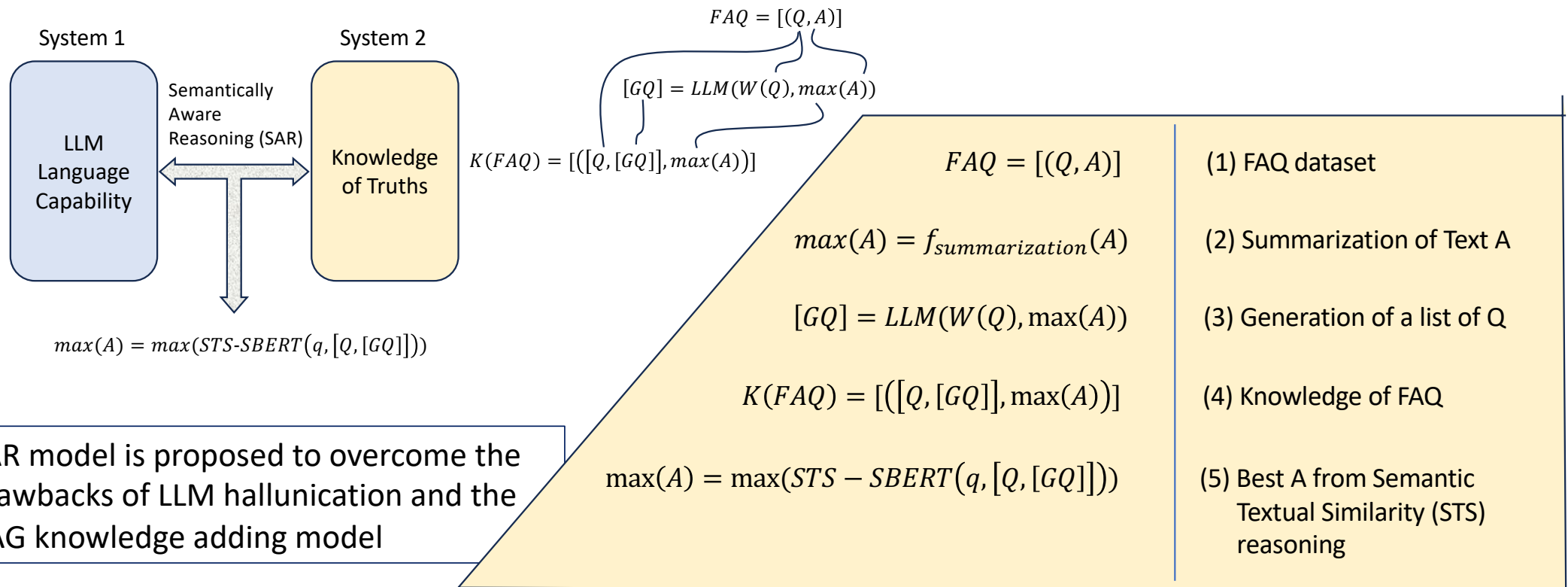
Converting this binary number to decimal, we get 11.

Therefore, the number represented by 'orange, banana, banana, orange, banana' is 11.

01101

Virach Sornlertlamvanich. Enhancing Large Language Models: Alleviating Knowledge Deficiency with External Knowledge and **Semantically Aware Reasoning (SAR)**. Knowledge and Information Systems, Springer Nature, pp. 1–19, 2025, doi: 10.1007/s10115-025-02485-4.

Knowledge Generation Process Preliminary test on FAQ dataset



State of Cognition:

The 5 progressive levels in the development of understanding or insight, the transformation of **Cogniton**.

Five States of Mind Enlightenment

เบญจวิชา (Benjavitcha)

- | | | |
|---|-----------|---|
| 1. Data/Information | データ, 情報 | ข้อมูล |
| <u>Sensing</u> what you observe | | |
| 2. Knowledge | 知識 | ความรู้ |
| <u>Understanding</u> what you observe | | |
| 3. Consciousness | 気づき, メタ知識 | สติ (Sati , ความระลึกได้) |
| <u>Knowing</u> what you know / Meta-Knowledge, Mindfulness | | |
| 4. Awareness | 理解、明覚 | สัมปชัญญะ (Sampajañña , ความรู้ลึกทั่ว) |
| <u>Ability to reach</u> what you know / Clear comprehension | | |
| 5. Enlightenment | 悟り | ตรัสรู้ |
| <u>Knowledge creation</u> | | |

"Is a Conscious AI necessary?"