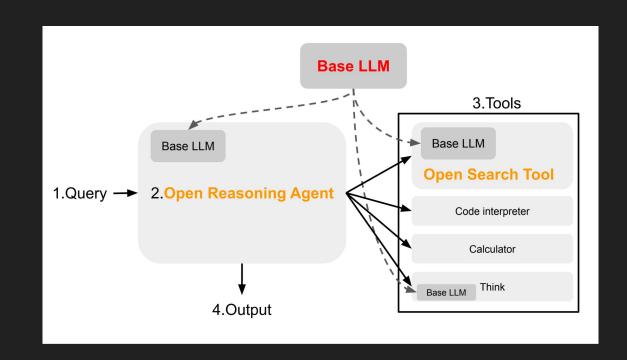
Improving Open Deep Search

Sentient AGI

Angles of Attack

- Structured information retrieval from the web
- Majority voting to leverage variance in responses
- Advanced planning before entering answer mode
- Additional minor improvements



Structured Information Retrieval

Frames Question: Imagine there is a building called Bronte tower whose height in feet is the same number as the dewey decimal classification for the Charlotte Bronte book that was published in 1847. Where would this building rank among tallest buildings in New York City, as of August 2024?

ODS only returns top 5 buildings even though the queried article contains a sufficiently long list (the true answer is the 37th)!

```
1. One World Trade Center - 1,776 feet
2. Central Park Tower - 1,550 feet
3. 111 West 57th Street - 1,428 feet
4. One57 - 1,005 feet
5. 432 Park Avenue - 1,396 feet
```



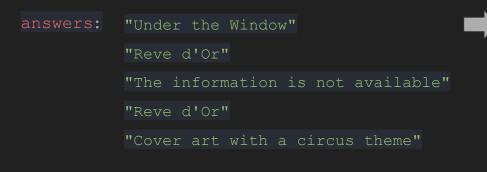
We built a tool extracting structured information from queried pages and returning them if useful.

Majority Voting

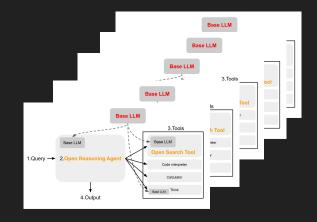
Frames Question: An Australian artist, born the same year as artist Janet Cumbrae Stewart and fellow member of the Melbourne Society of Women Painters and

Sculptors, had her painting featured on the cover of Women's World Magazine in 1923. What is the name of the painting?

Running ODS 5 times:

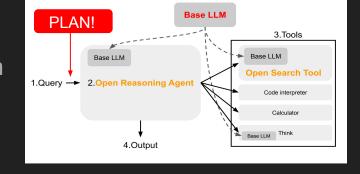


Solution: Majority Voting!



Additional Improvements

- Planning step before starting the search
- Processing sources sequentially by trustworthiness:



Answer Box => Wikipedia => Aggregated Sources => Top News Articles

Hyperparameter adjustments: E.g. Allow larger fractions to be extracted from sources