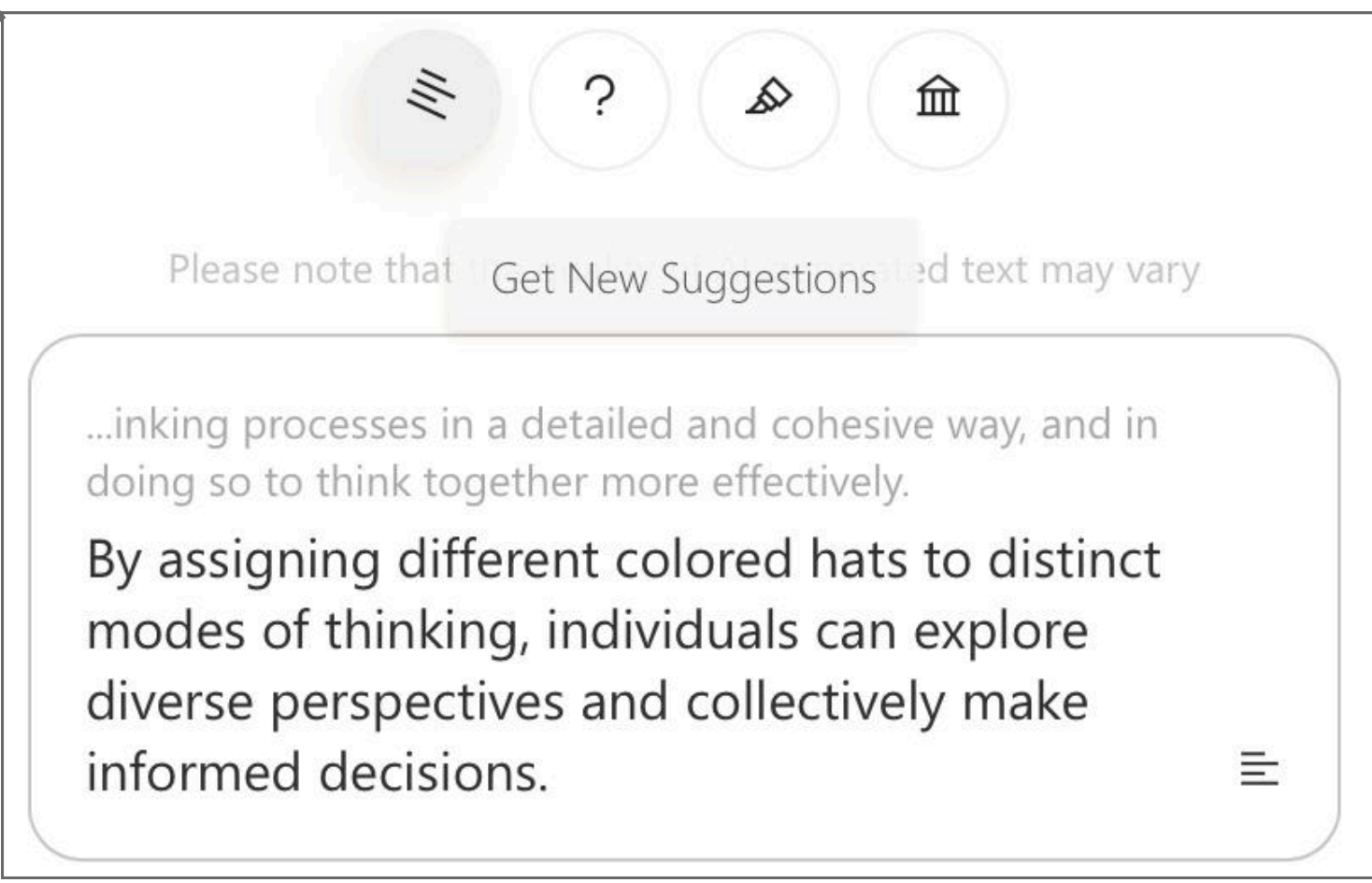
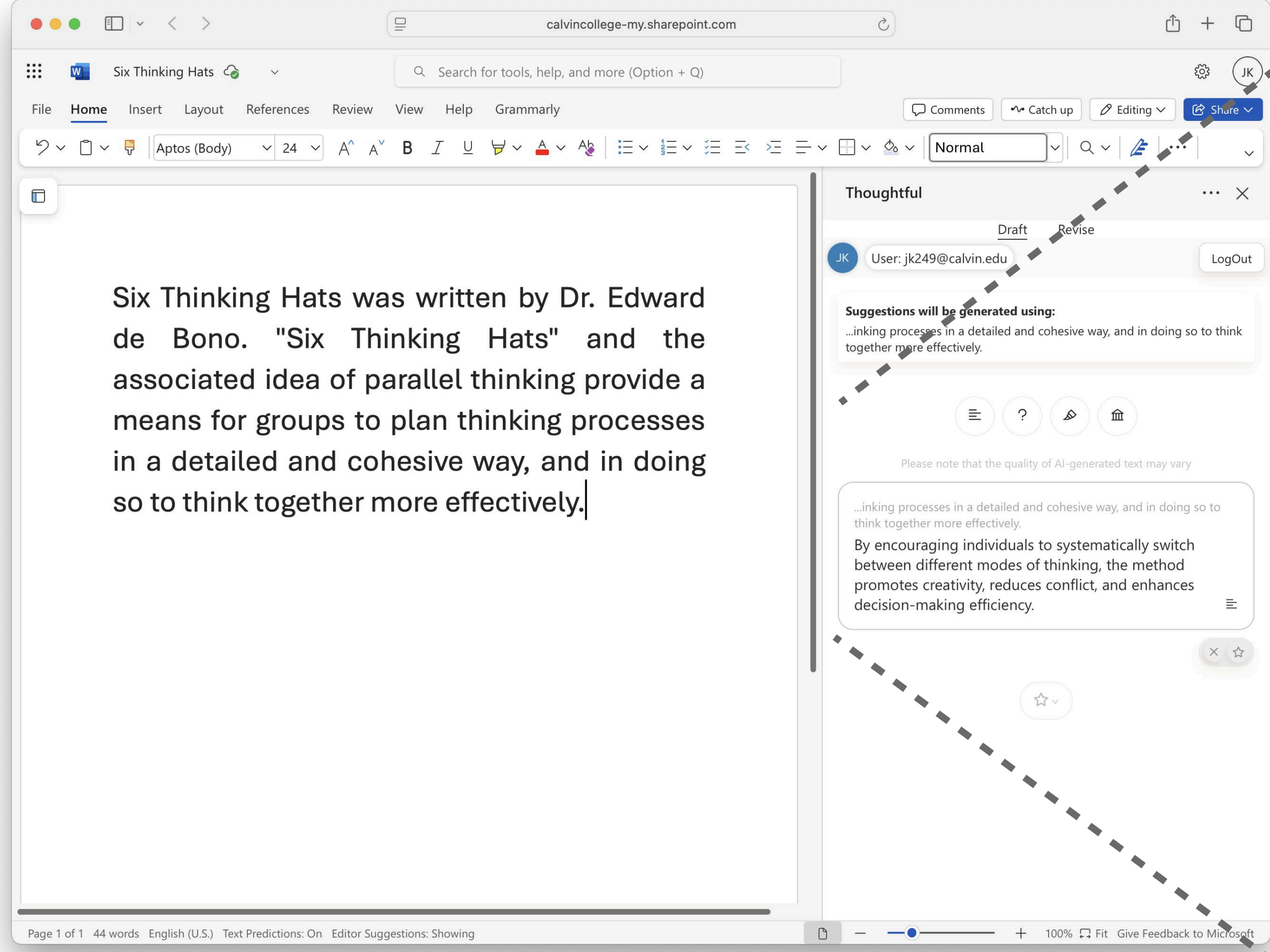
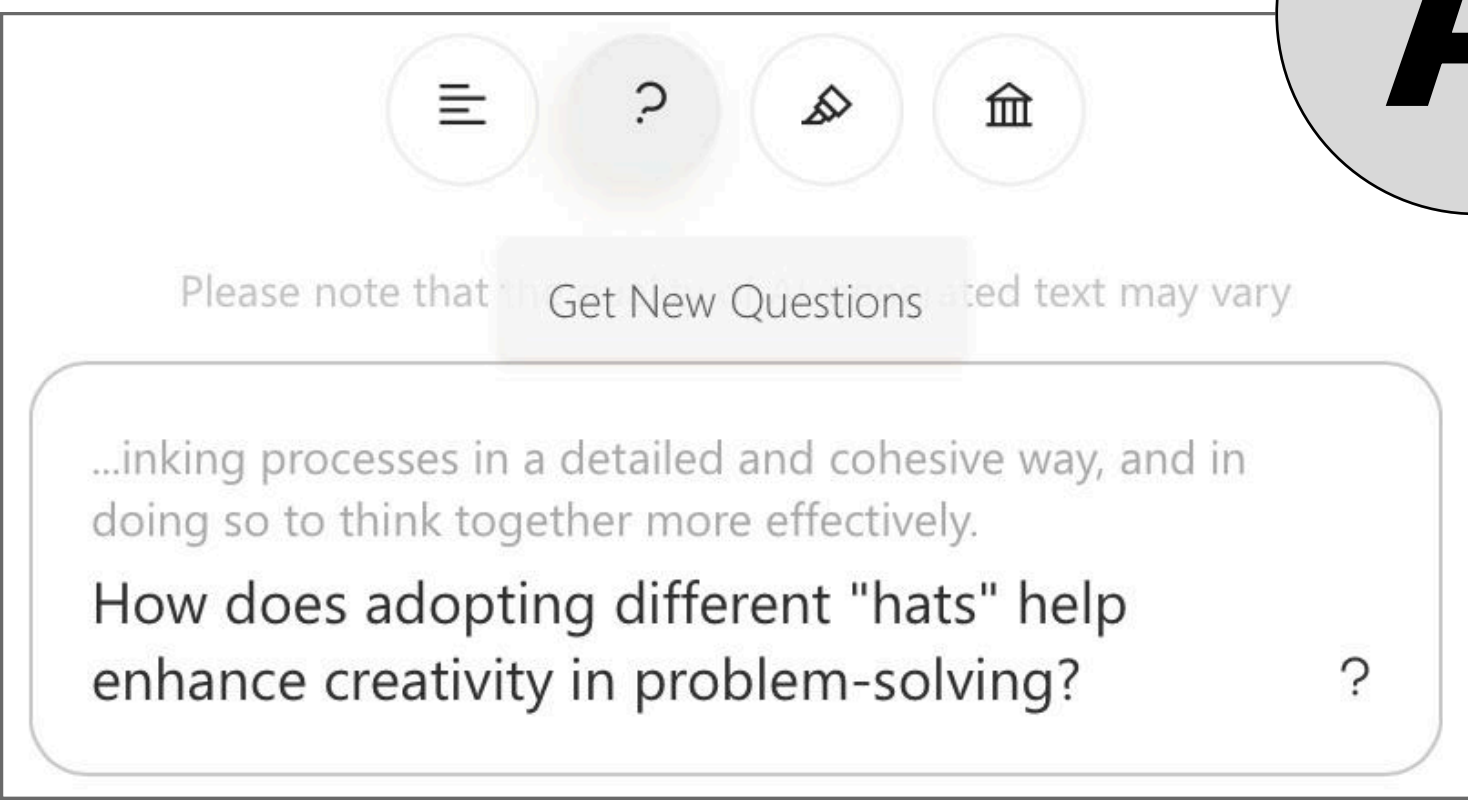


Designing Affordances for Promoting Intentionality in Human-AI Co-Writing

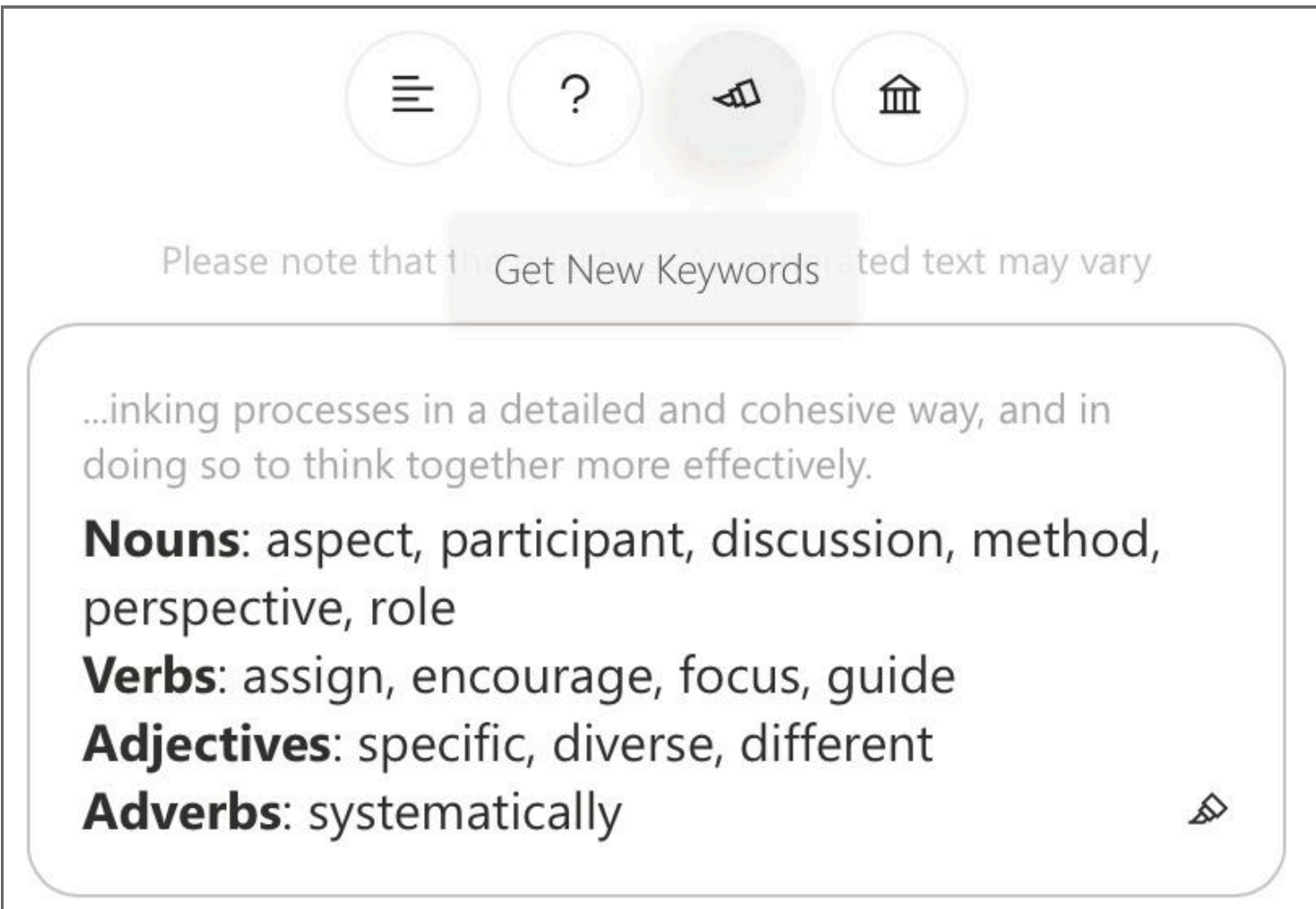
Jason G. Chew, Juyeong Kim, Jiho Kim, Ray C. Flanagan, Heonjae Kwon, Jooha Yoo, Kenneth C. Arnold



An **example** of what might come next



A **question** that the next sentence could answer



Vocabulary that the next sentence might use



A **rhetorical strategy** that the next sentence could employ

Large language models (LLMs) like ChatGPT can generate a lot of text from a small prompt, which may lead users to disengage from the writing process. **How might we redesign the interaction to promote engagement?**

To promote intentionality in co-writing with LLMs, we propose a set of UI affordances to **A** modify the *content* of generated suggestions, **B** enable direct manipulation of the model's output, and **C** explore alternative text edits.

A small pilot study (N=9) varying suggestion content **A** revealed that:

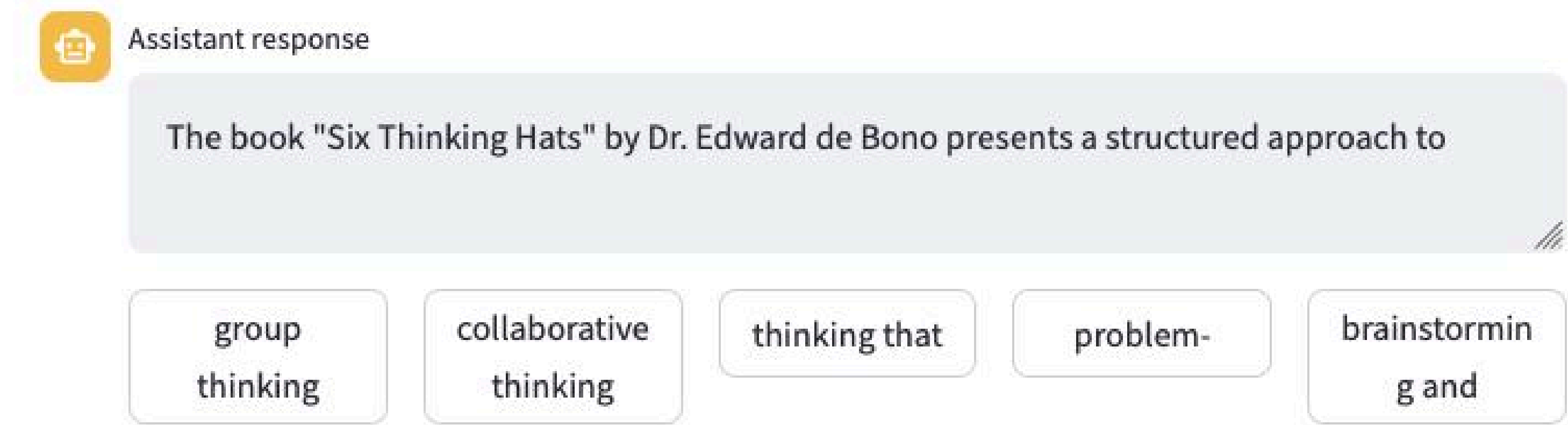
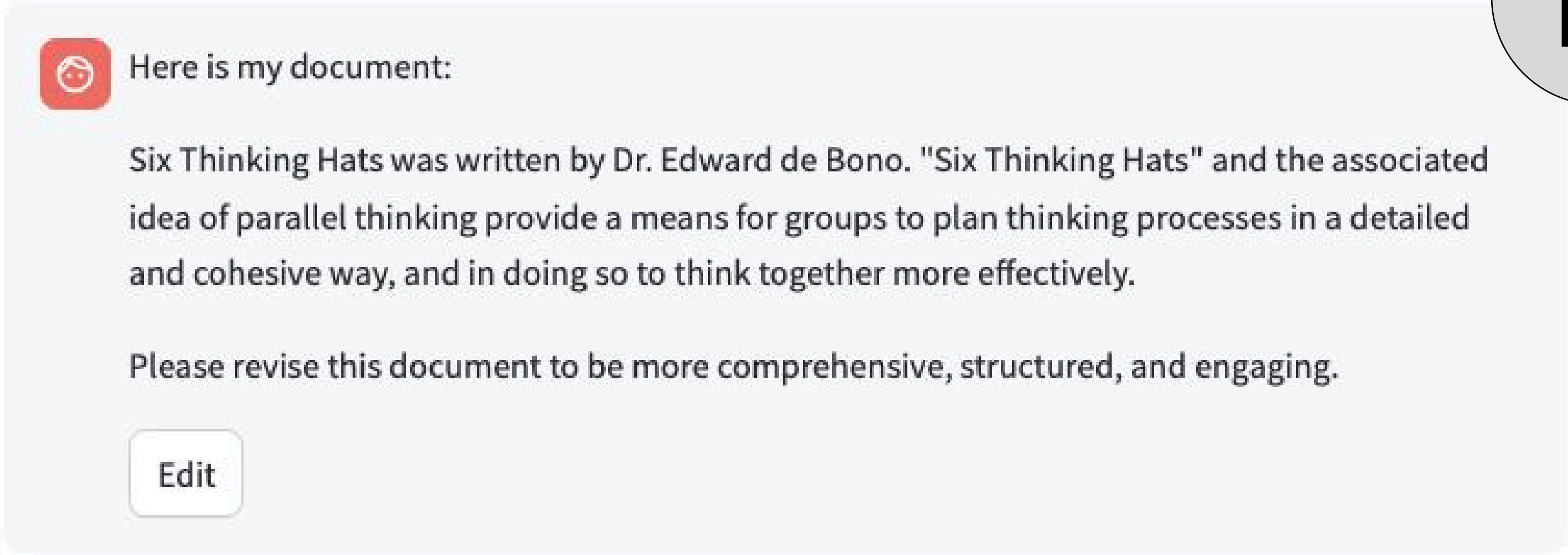
- While most participants used **examples**, they often felt these undermined their authorship due to elevated diction. Those who paraphrased examples typically simplified the language.
- **Questions** were seen as less prescriptive than examples; most verbatim uses were for topic sentences, suggesting questions may assist paragraph framing.
- Participants preferred their own wording, valuing AI-generated ideas over AI-generated diction. They mostly used **vocabulary** suggestions for rewording original diction.
- **Rhetorical strategies** were rarely used but were appreciated for allowing creative freedom, especially when suggesting specific types of evidence.

Our work offers insights into how AI writing tools can be designed to foster control, ownership, and awareness by encouraging active human engagement throughout the co-writing process.

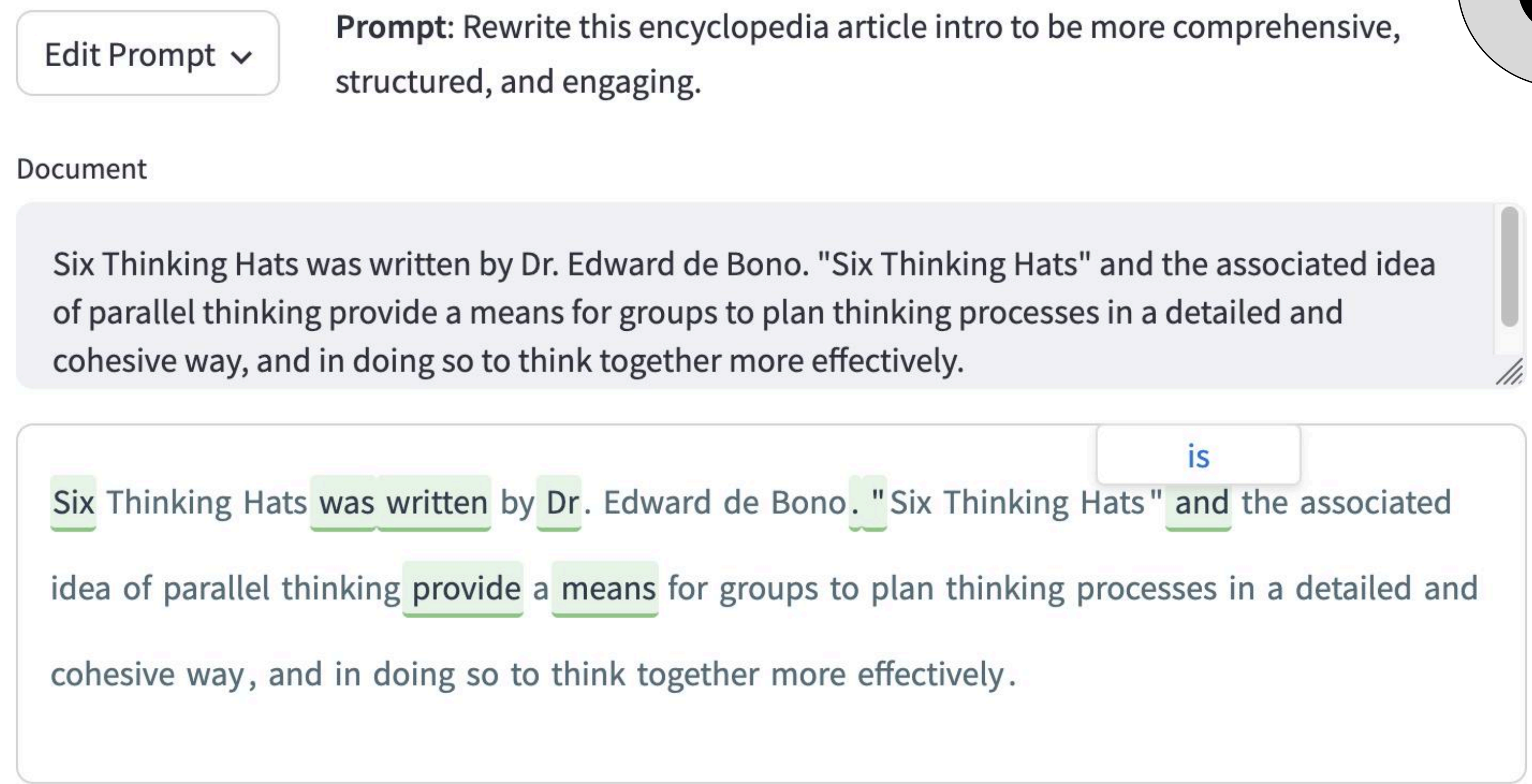
A

B

C



Predictive text interaction repurposed to type the assistant's response



Highlighting opportunities for divergent choices



Try our prototypes!

tiny.cc/in2demo