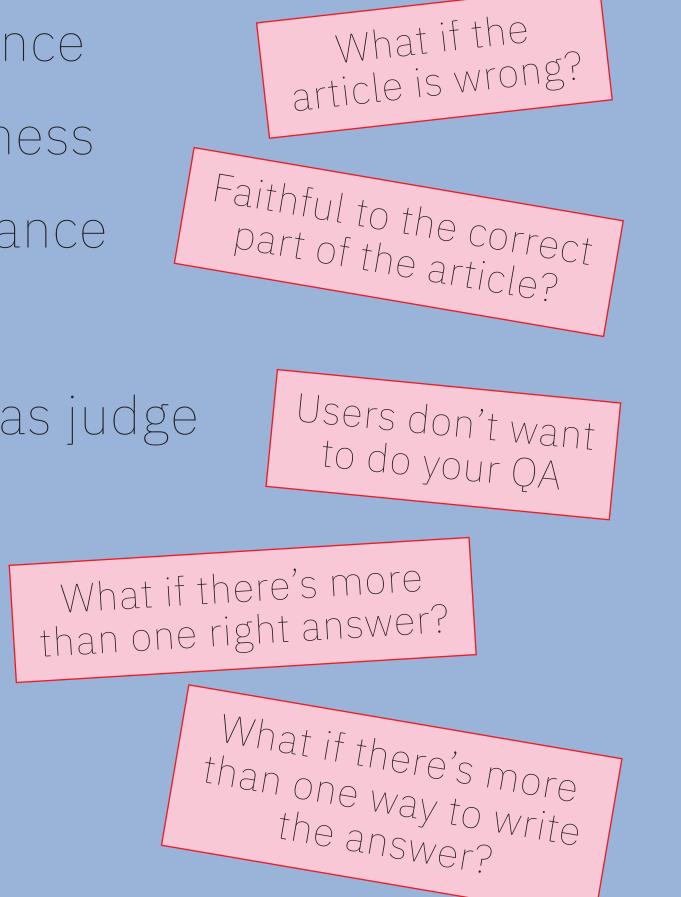
Automation is risky

Many methods for automatically evaluating RAG results have been proposed. But it's risky to fully rely on automated RAG evaluation, because these methods can often fail.

- Question-article relevance
- Article-answer faithfulness
- Question-answer relevance
- Fact comparison
- Large language model as judge
- User feedback
- String similarity
- Semantic similarity



The stakes are high

When **search** returns poor results, people just modify their query and then search again.

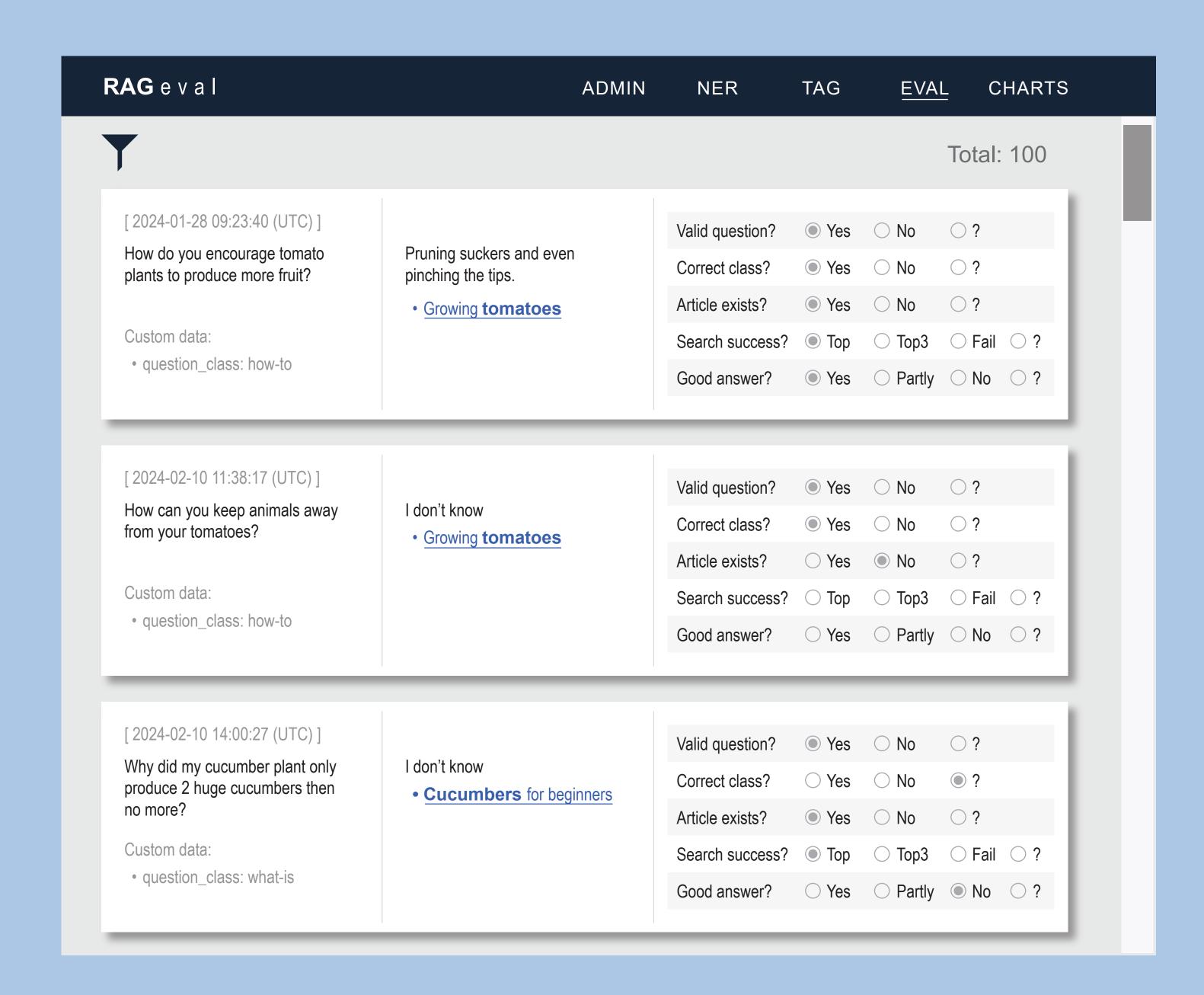
When **RAG** returns a wrong result, people believe the authoritative-sounding answer generated by the large language model. And then they sue when the answer gets them in trouble!



EVALUATING RETRIEVAL-AUGMENTED GENERATION (RAG)

ibm.biz/RAG-evaluation

A streamlined, human-in-the-lead approach



Our team created a web app we use to evaluate results returned by our RAG solutions:

- For each user question, we assess returned answers according to multiple criteria
- We meet regularly to review and discuss results
- We fix content gaps, search failures, writing problems
- As we manually classify, tag, and evaluate results, that manual work is used to create training data
- Over time, the web app automatically classifies, tags, and evaluates more and more results, using models trained on the data from our manual work
- We share trends seen in user questions with our larger product team to improve the user experience