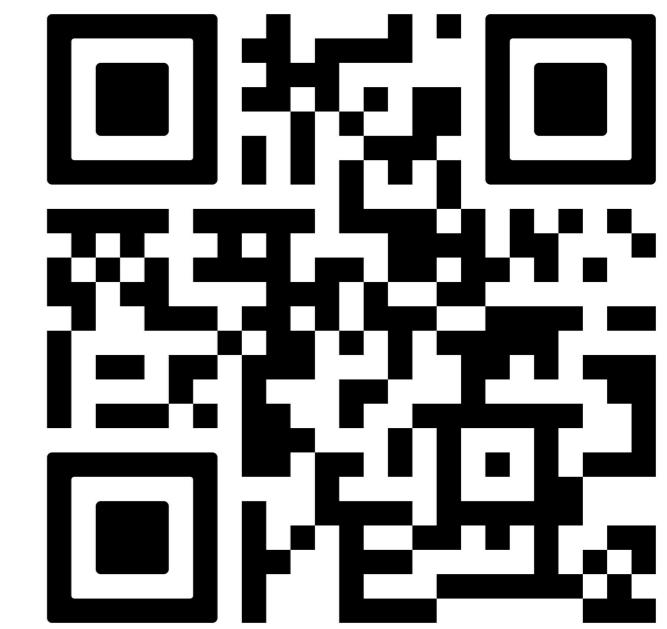


TAG-EQA: Text-And-Graph for Event Question Answering via Structured Prompting Strategies



Maithili Kadam and Francis Ferraro, University of Maryland, Baltimore County.

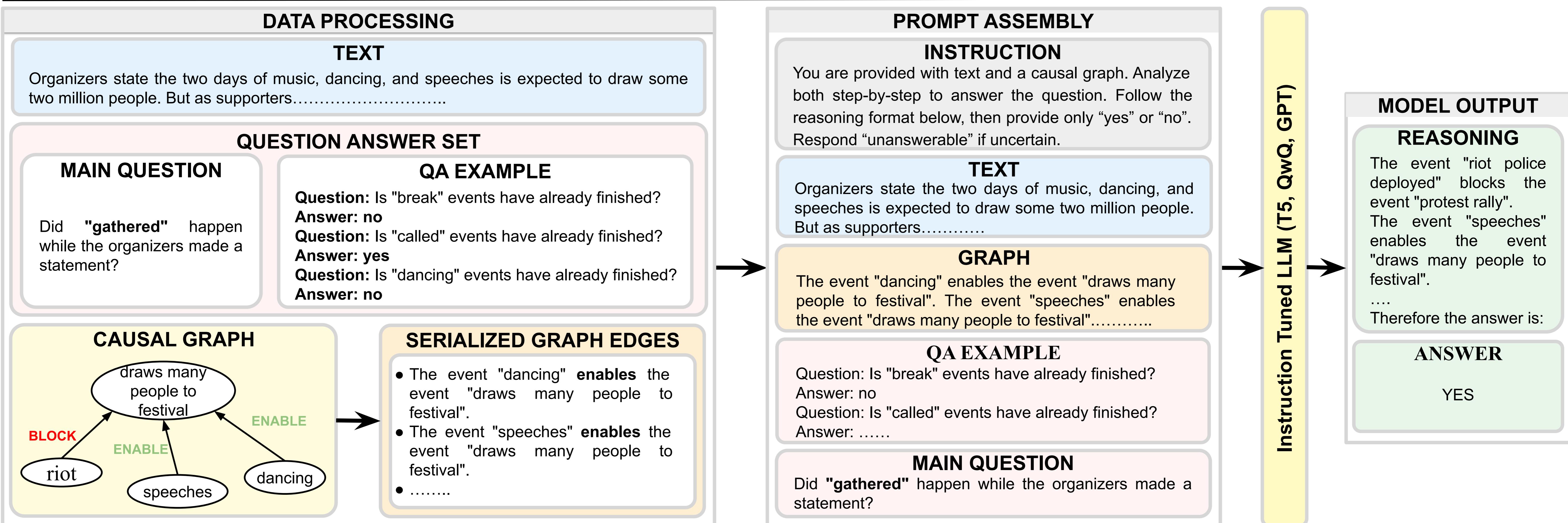
Key idea:

- Inject causal graph edges to guide reasoning
- Compare zero shot, few shot, and chain of thought
- Test text, graphs, and text and graph

Takeaways:

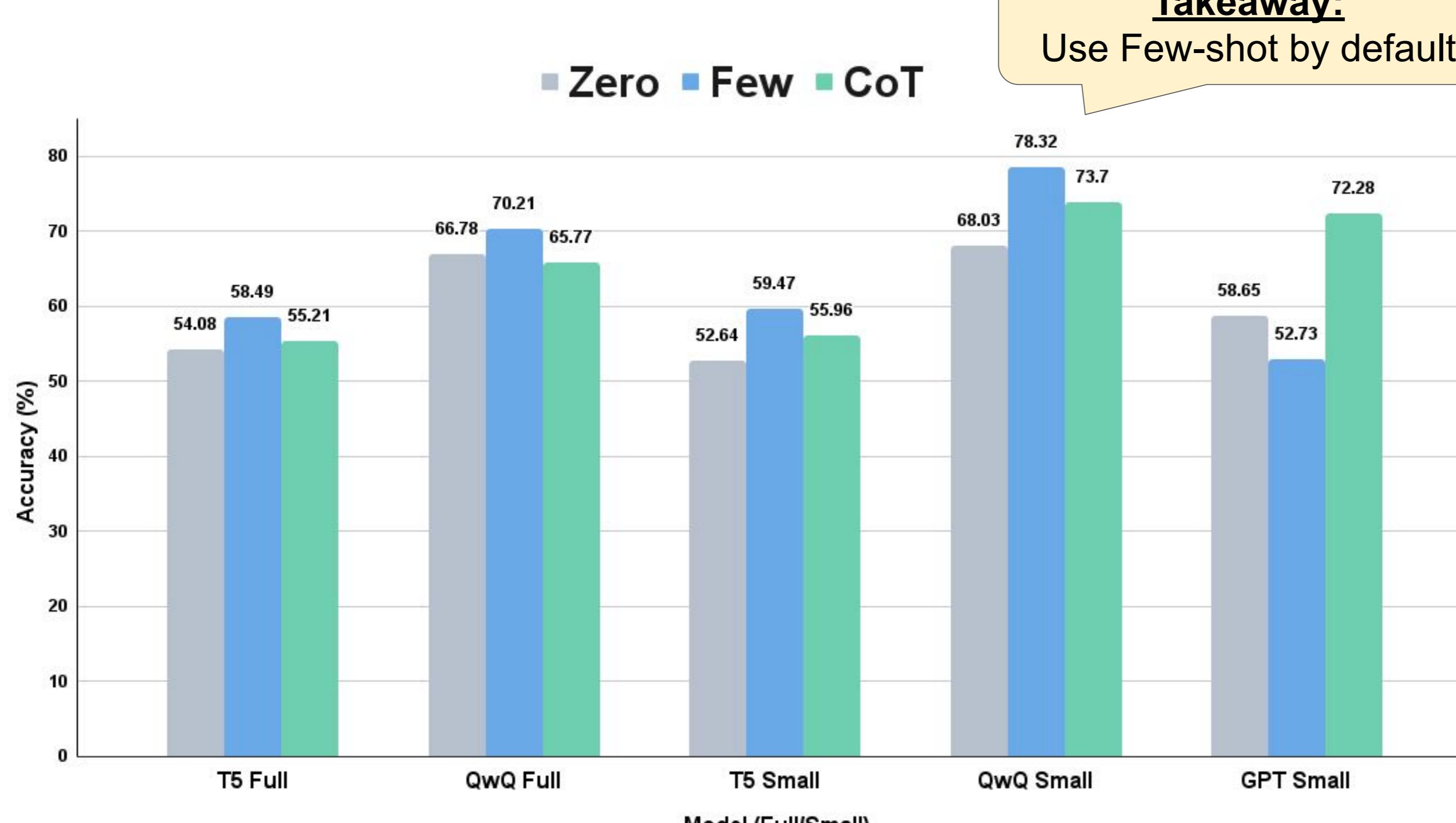
- Structure helps most in zero shot prompts
- CoT + graph offers the highest upside
- Biggest wins on causal and temporal questions

TAG-EQA PIPELINE

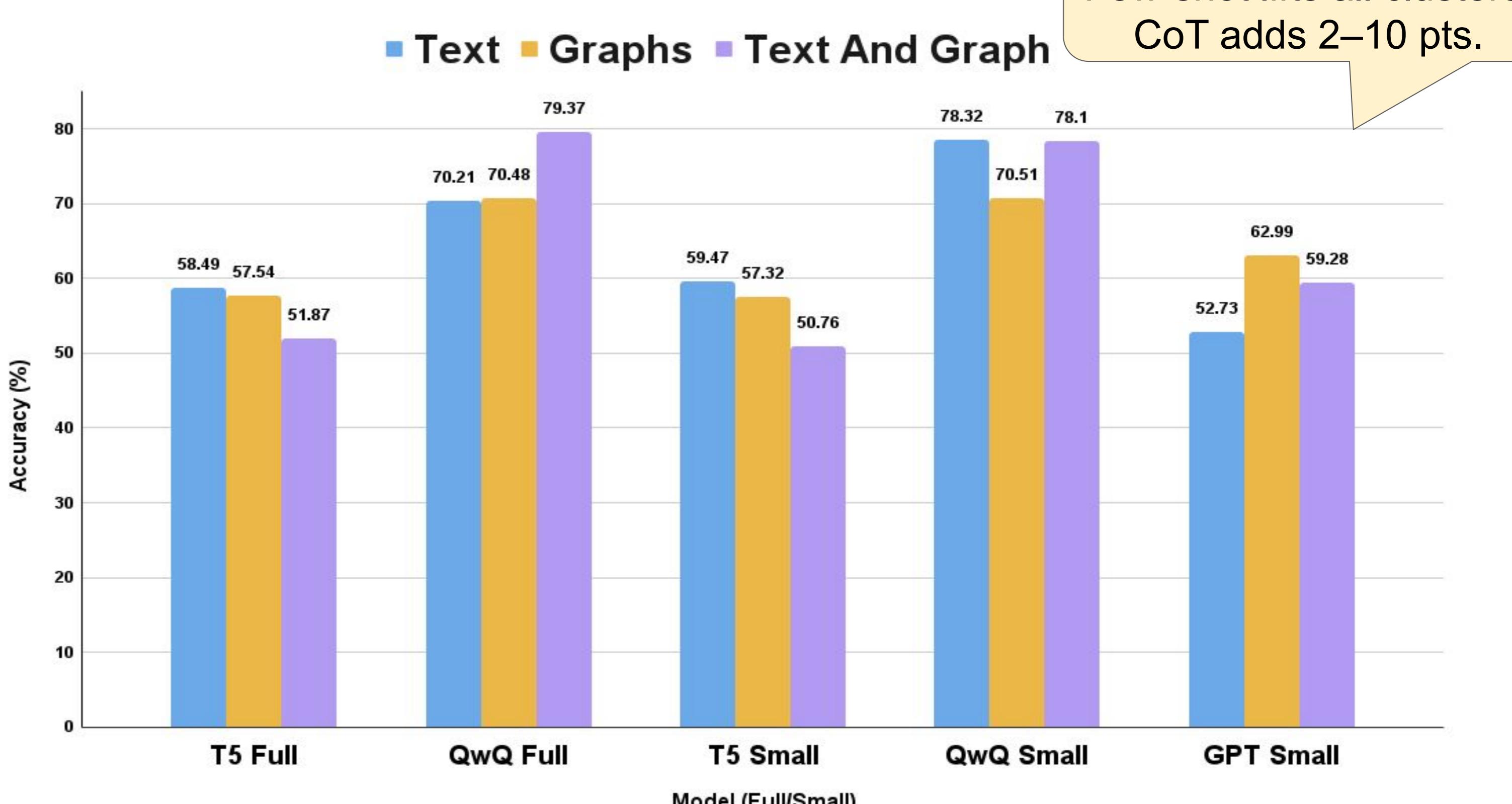


RESULTS

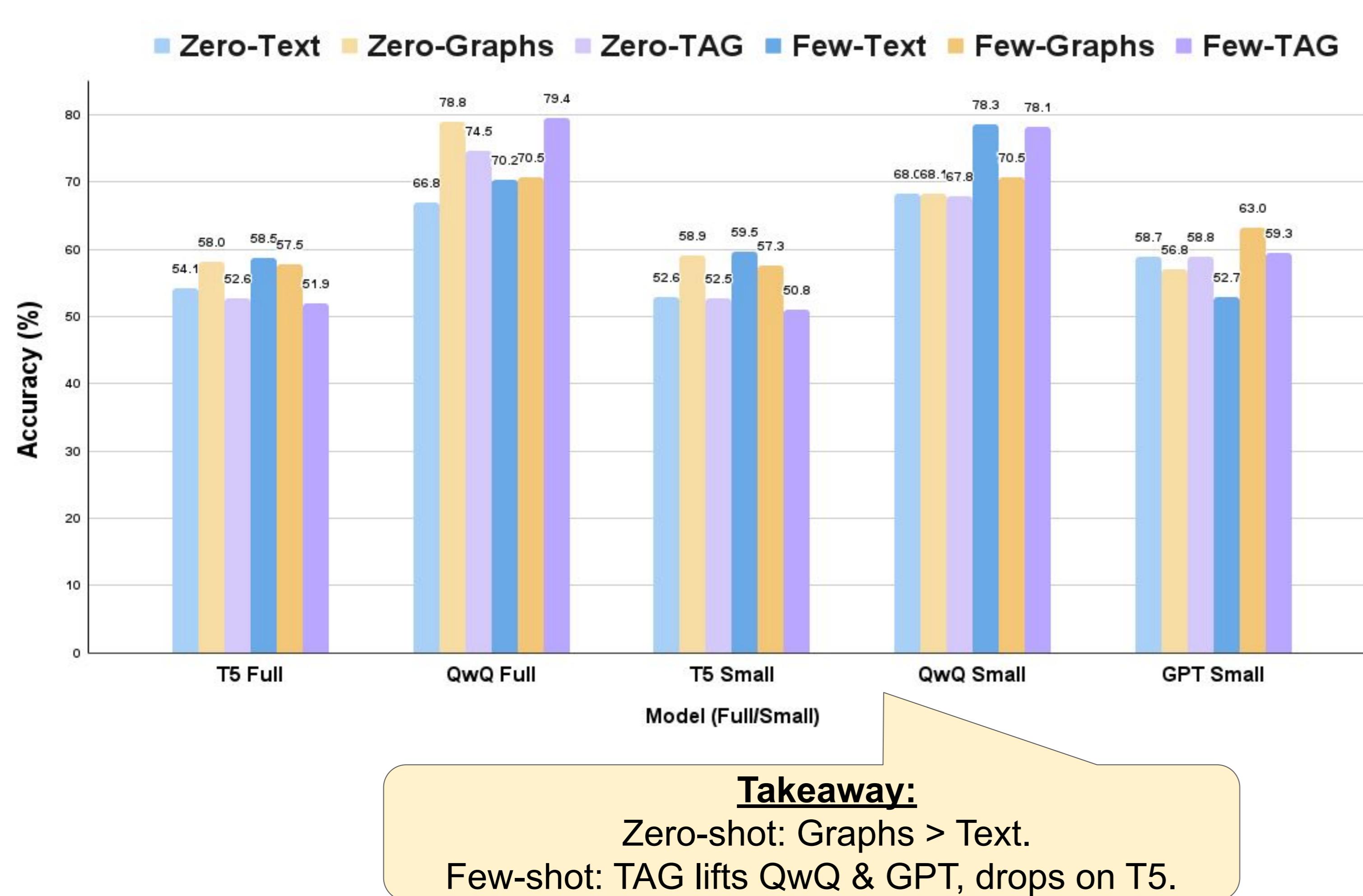
RQ 1: Does reasoning (CoT) improve performance over Zero or Few-shot using just text?



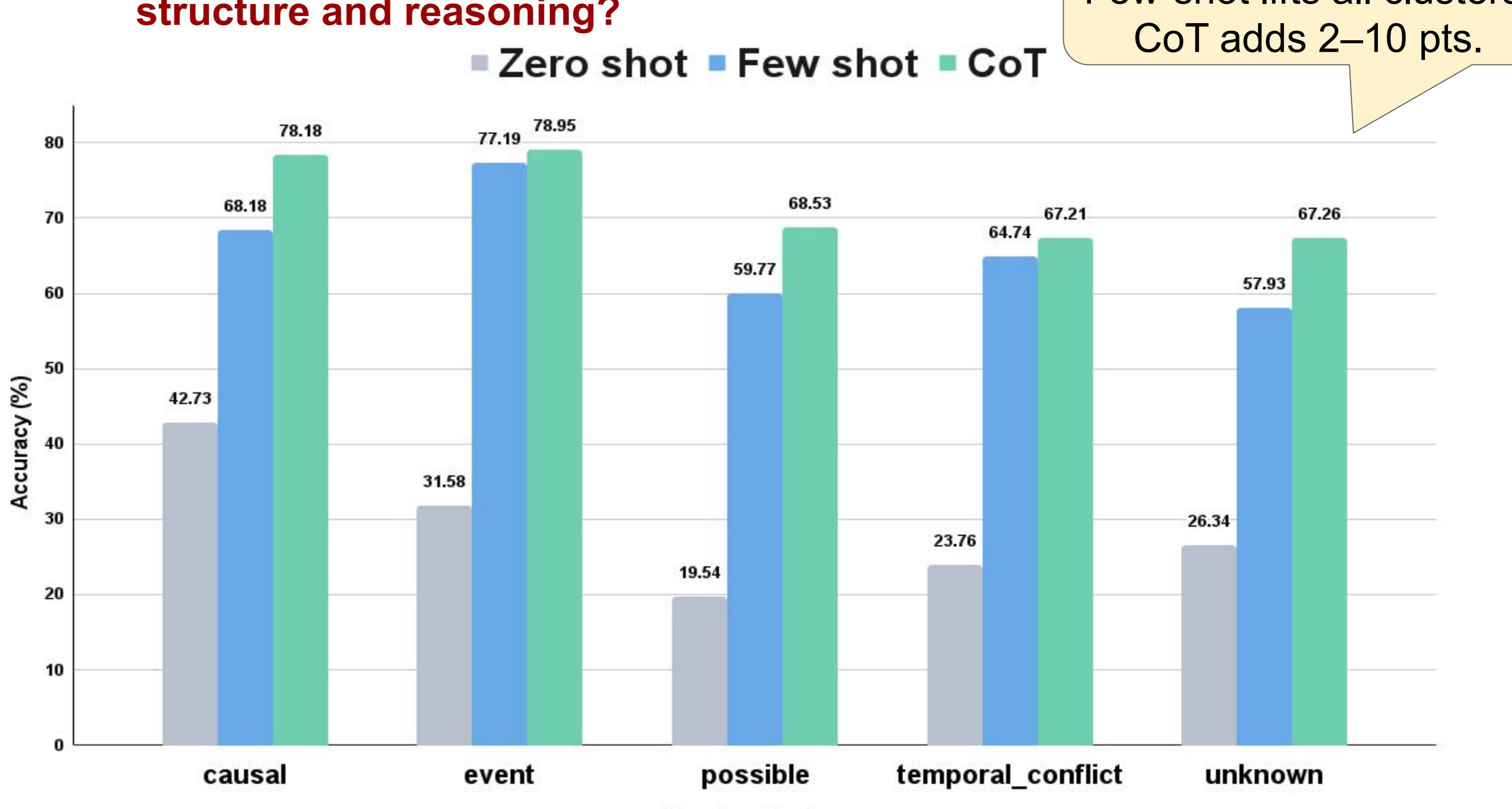
RQ 3: When reasoning is used, does adding graphs help or hurt?



RQ 2: Are graphs helpful when used alone or combined with text?



RQ 5: Which question types benefit most from structure and reasoning?



All results are on TORQUESTRA dataset.

Full size data = 53,061. Small size data = 1,024 .

GPT results shown on small size dataset only (cost)