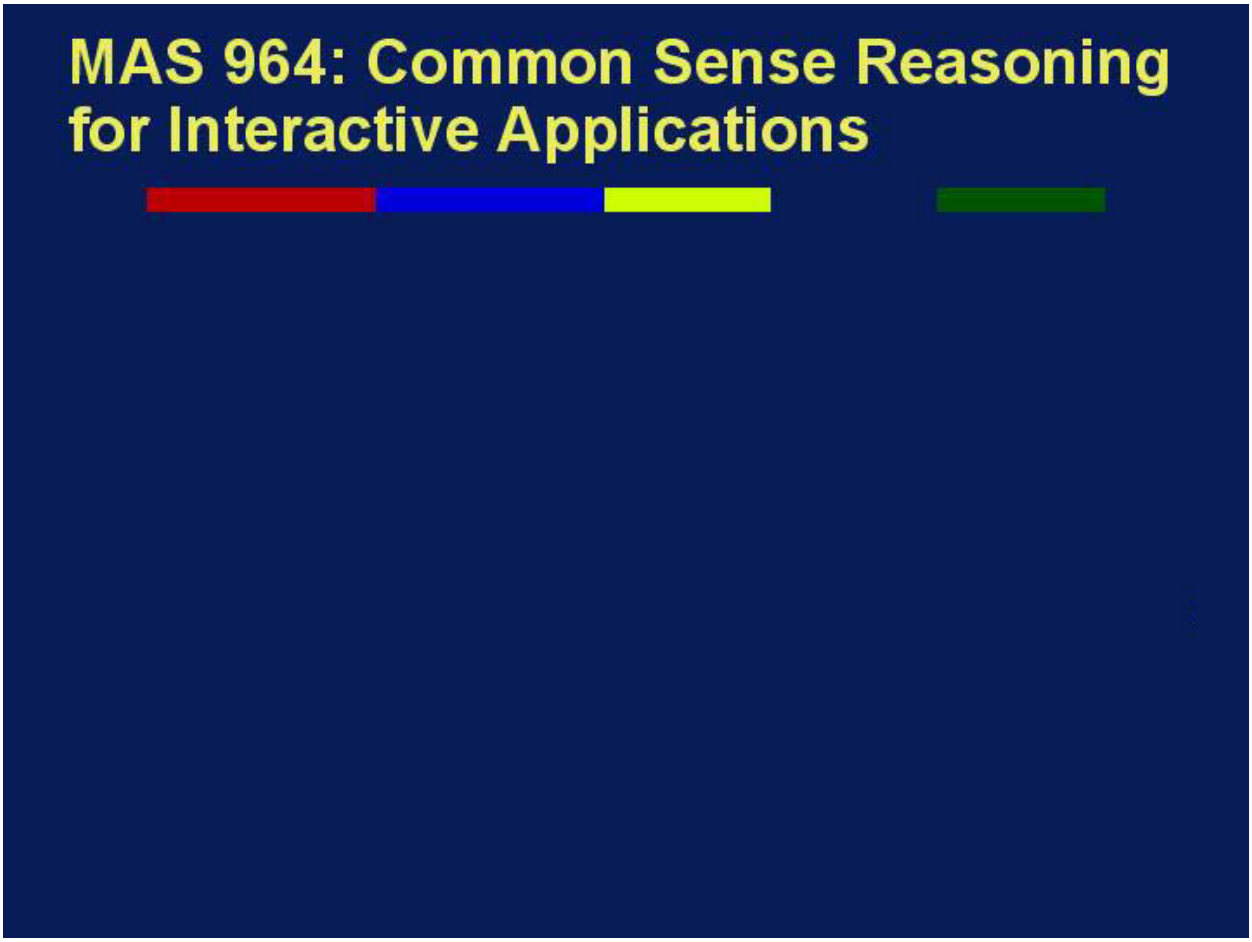
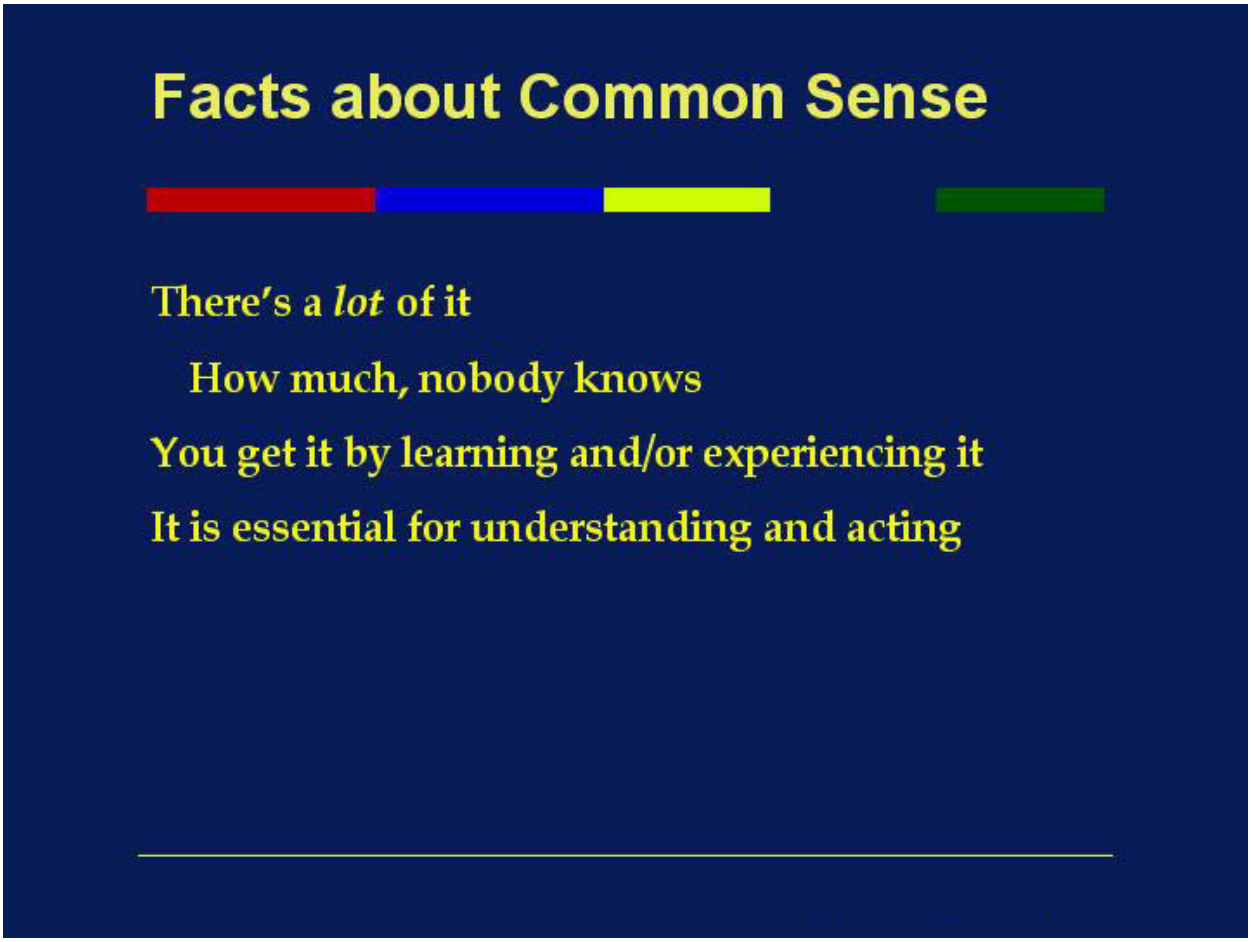
Common Sense Reasoning for Interactive Applications

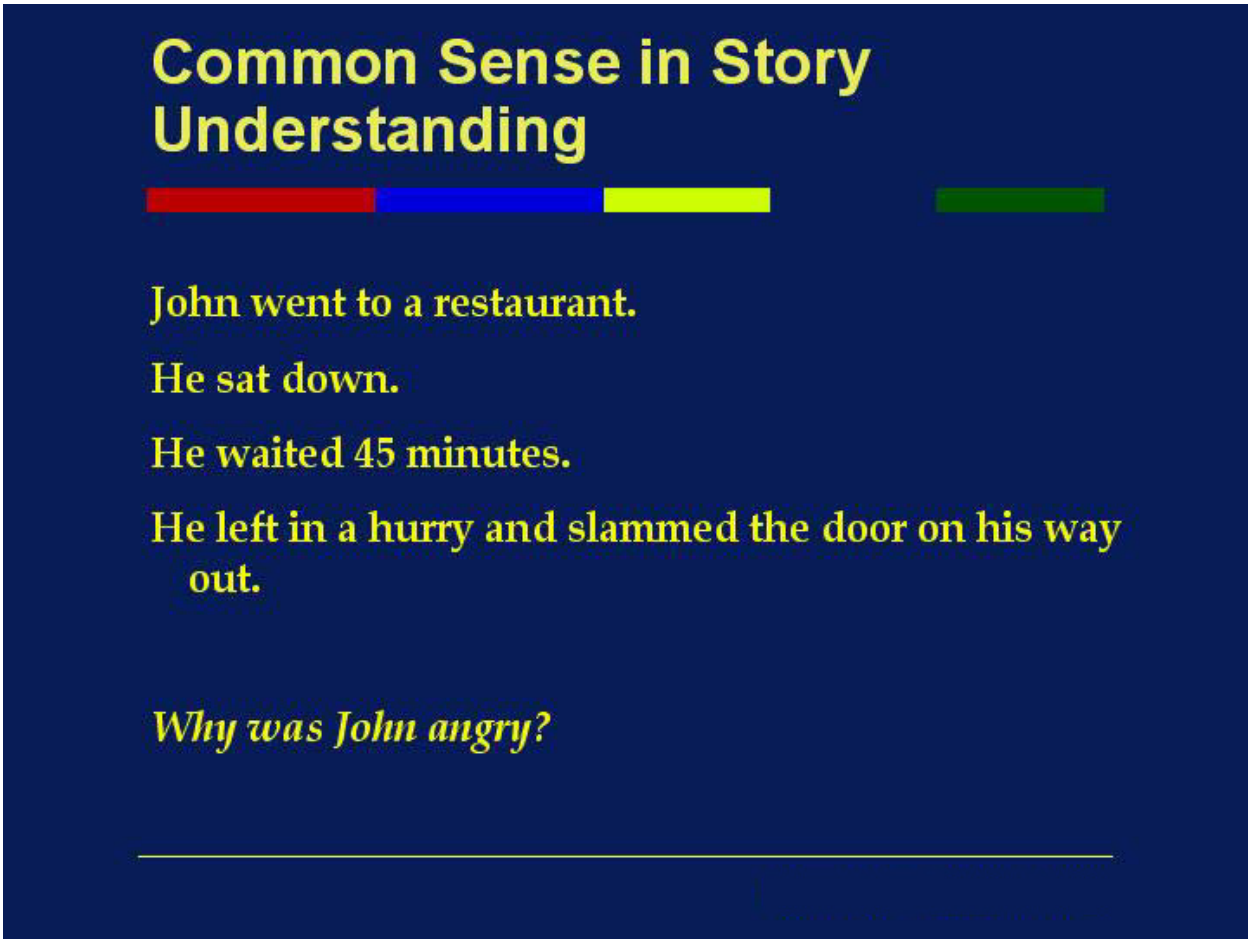


What is Common Sense?

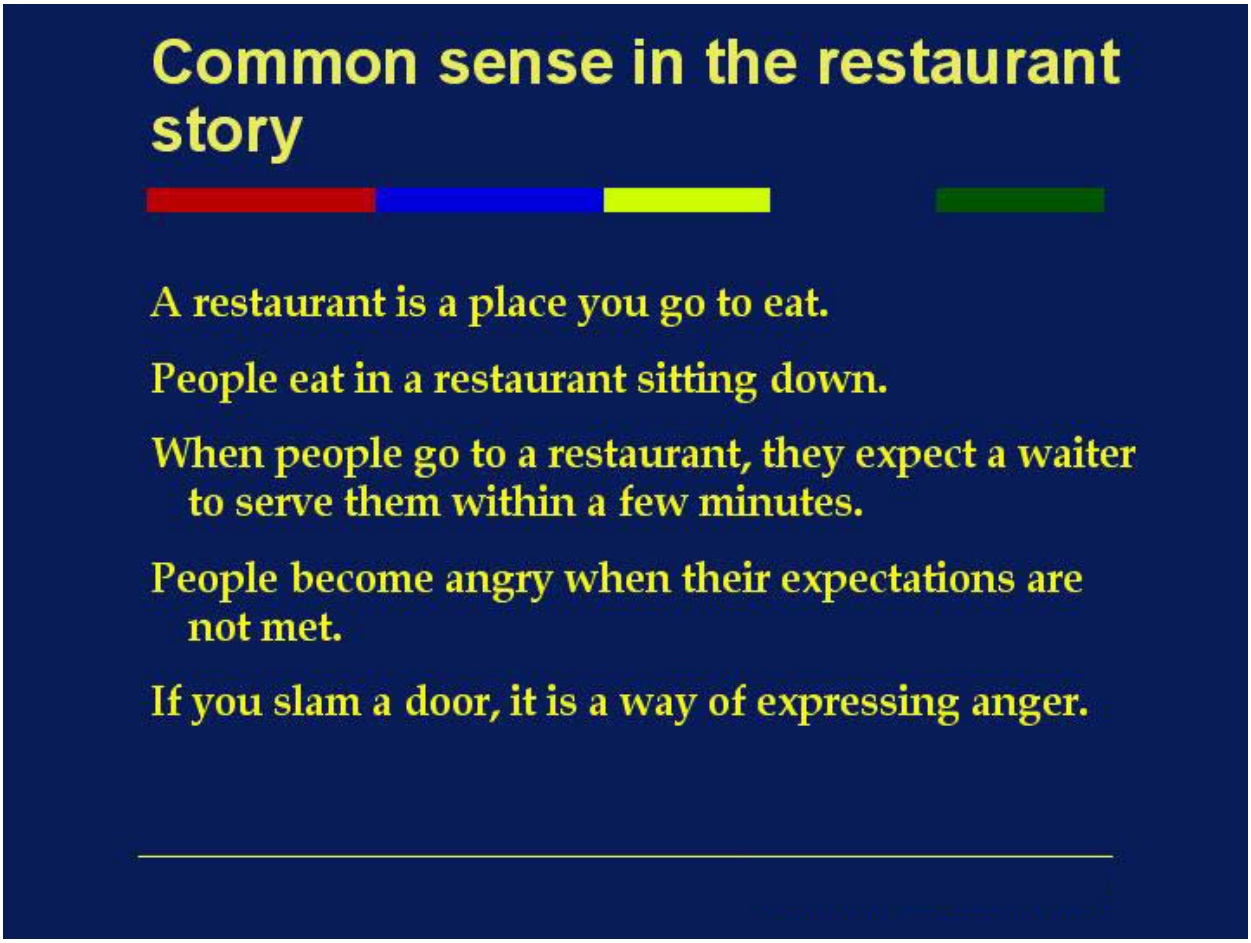
Facts about Common Sense



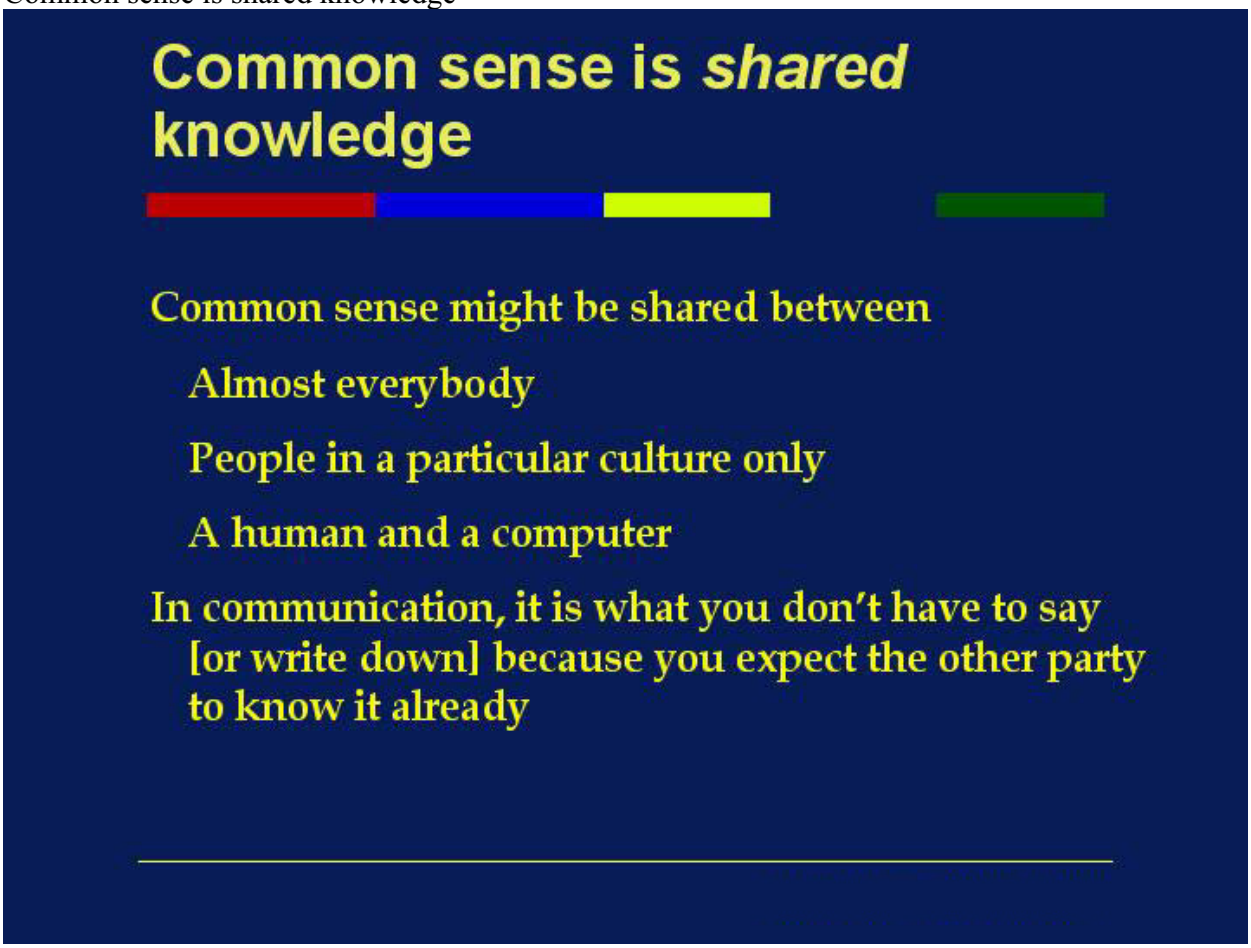
Common Sense in Story Understanding



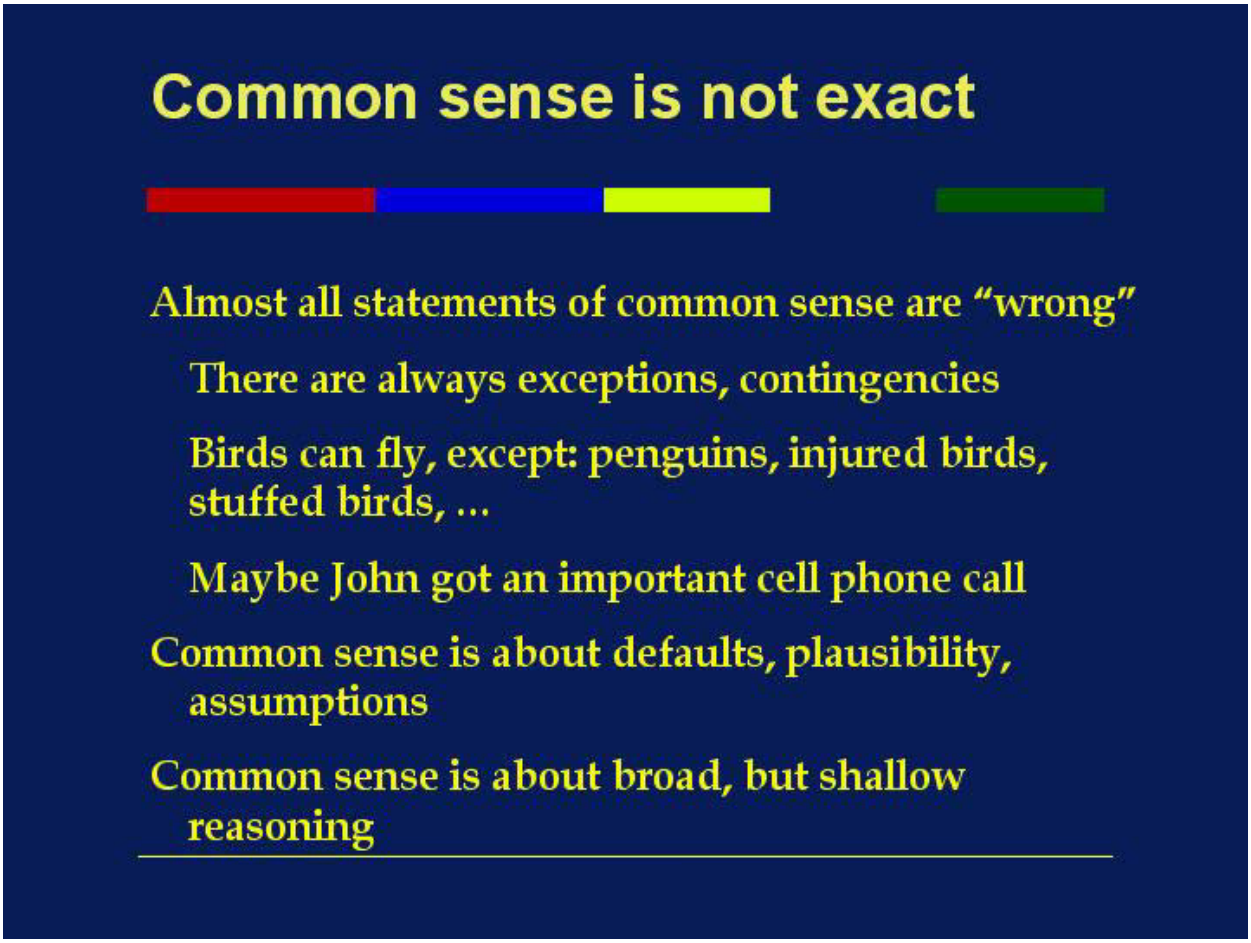
Common sense in the restaurant story



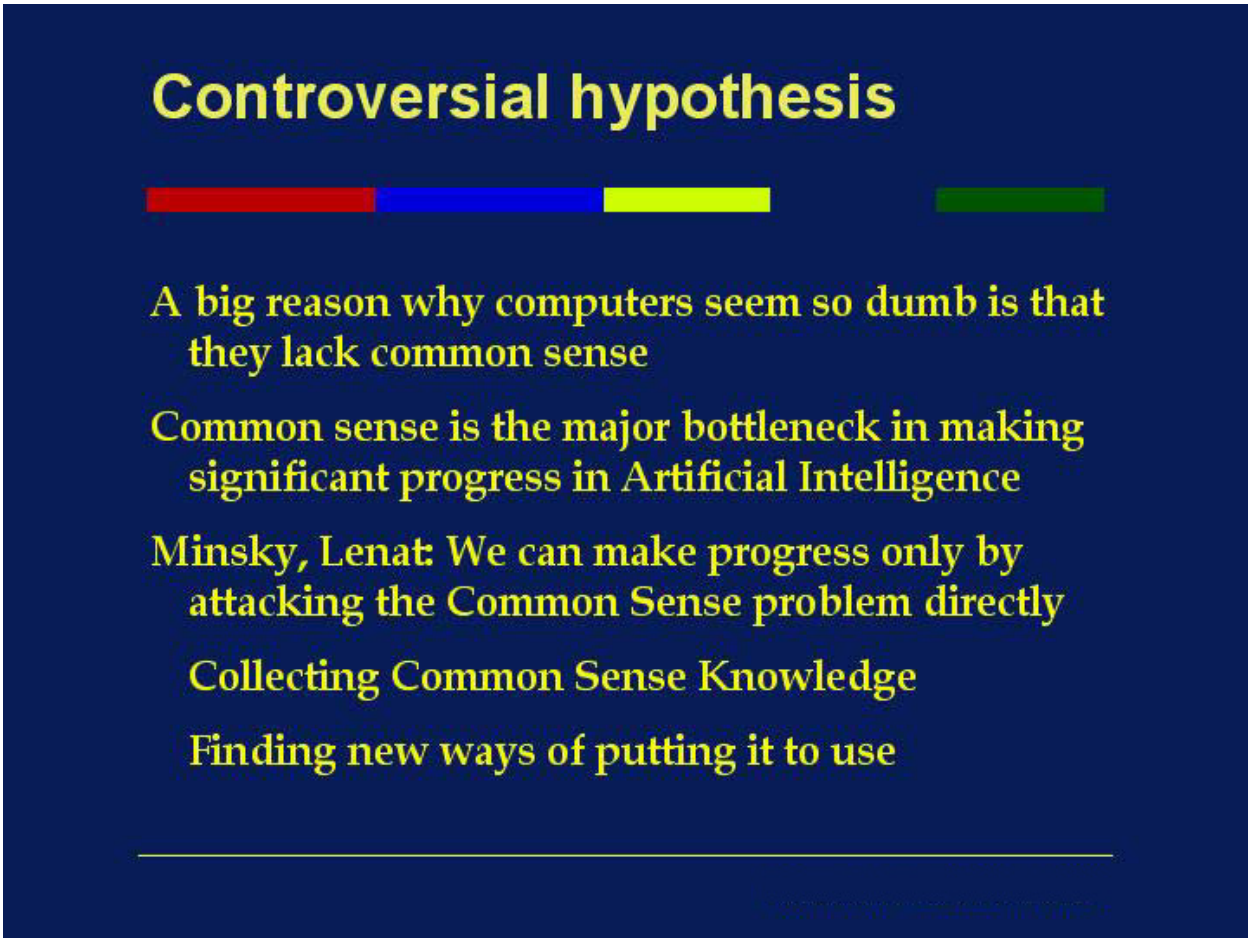
Common sense is shared knowledge



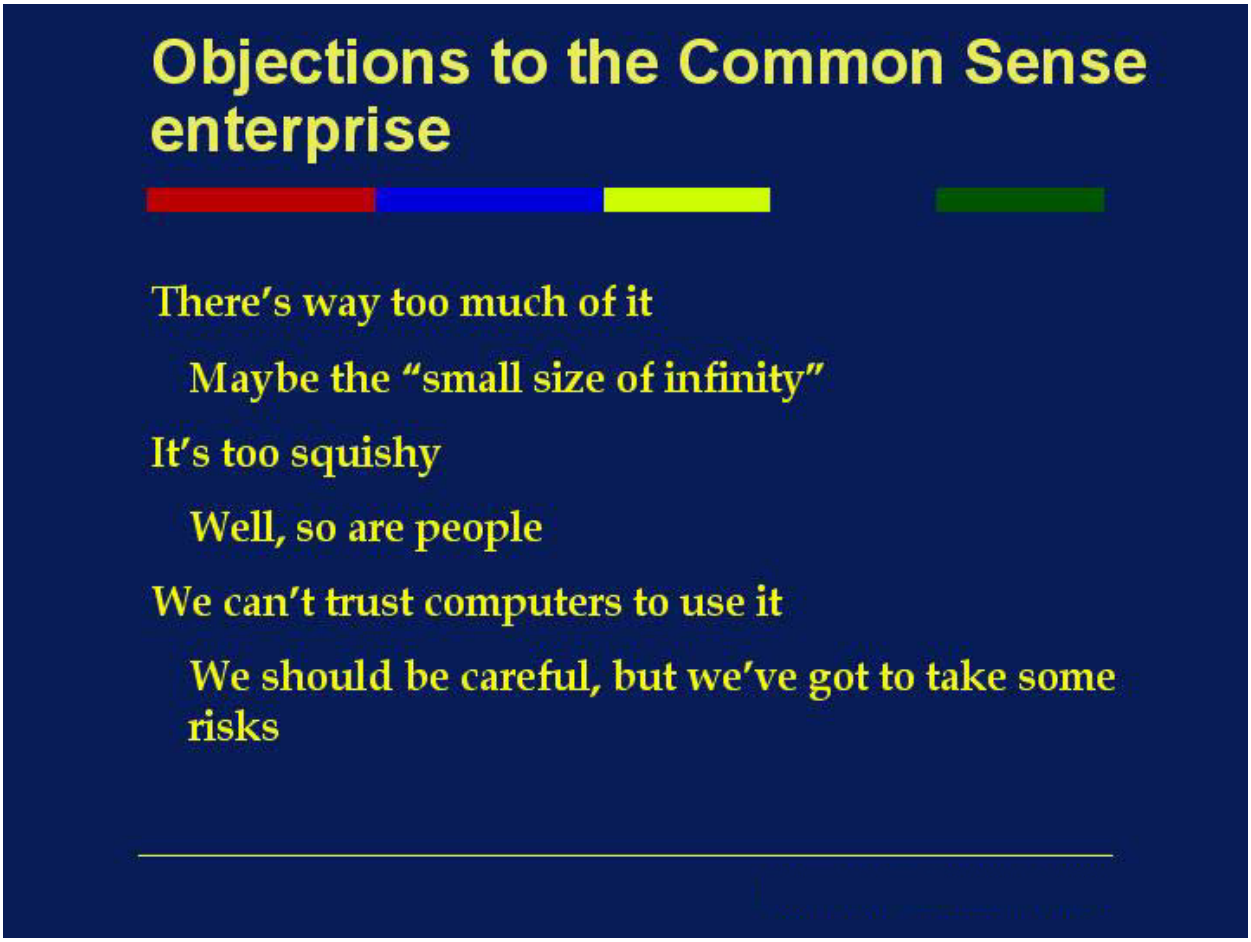
Common sense is not exact



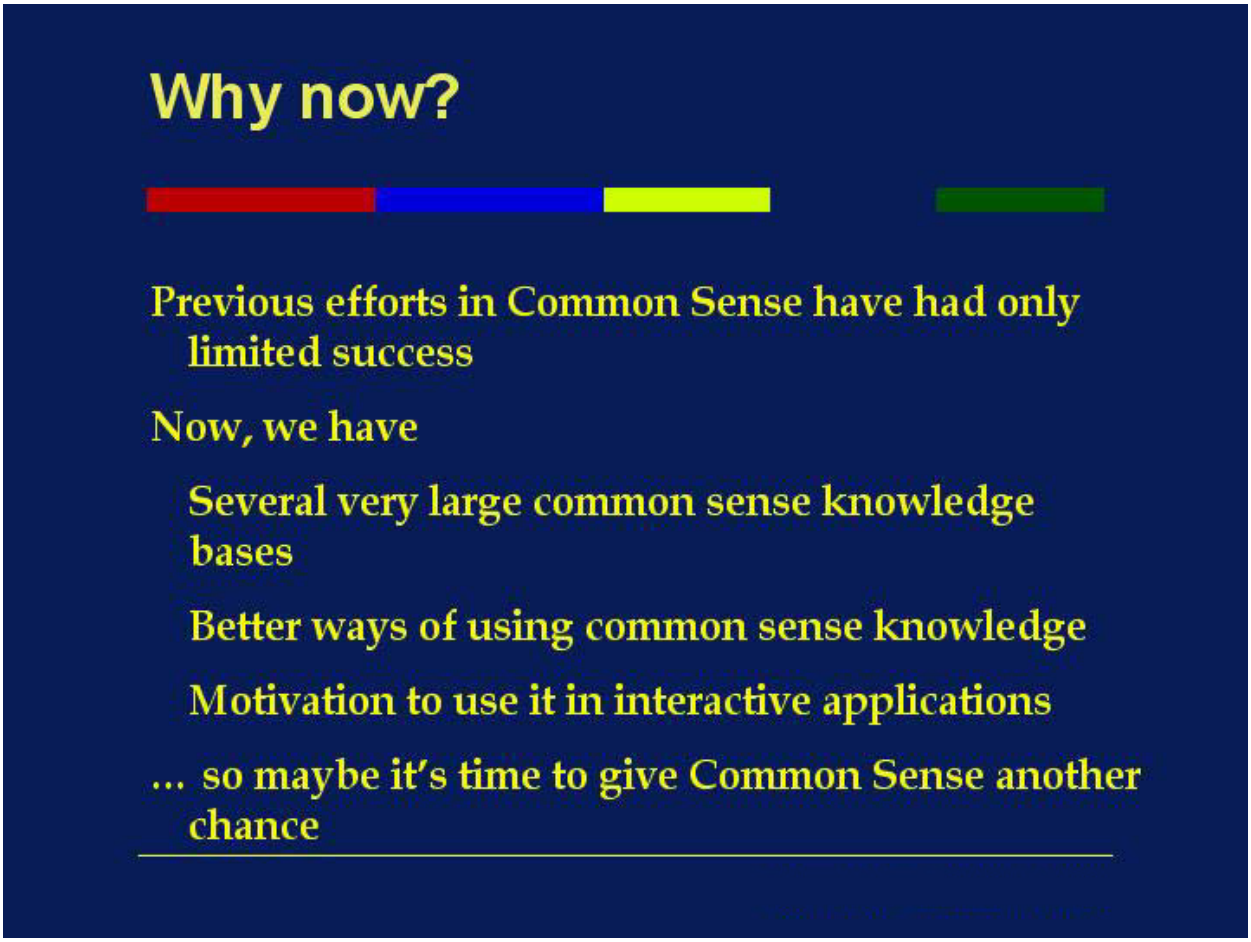
Controversial hypothesis



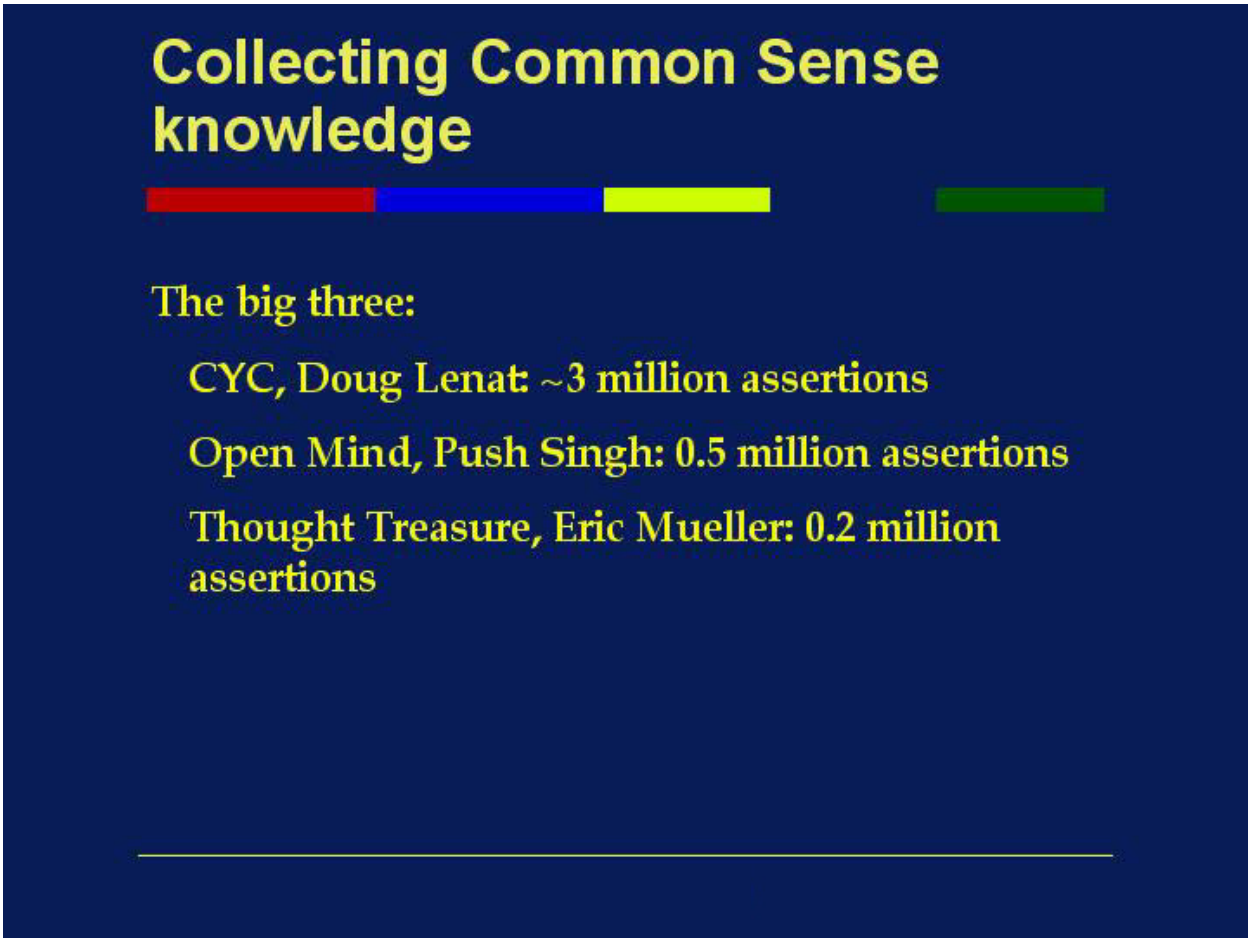
Objections to the Common Sense enterprise



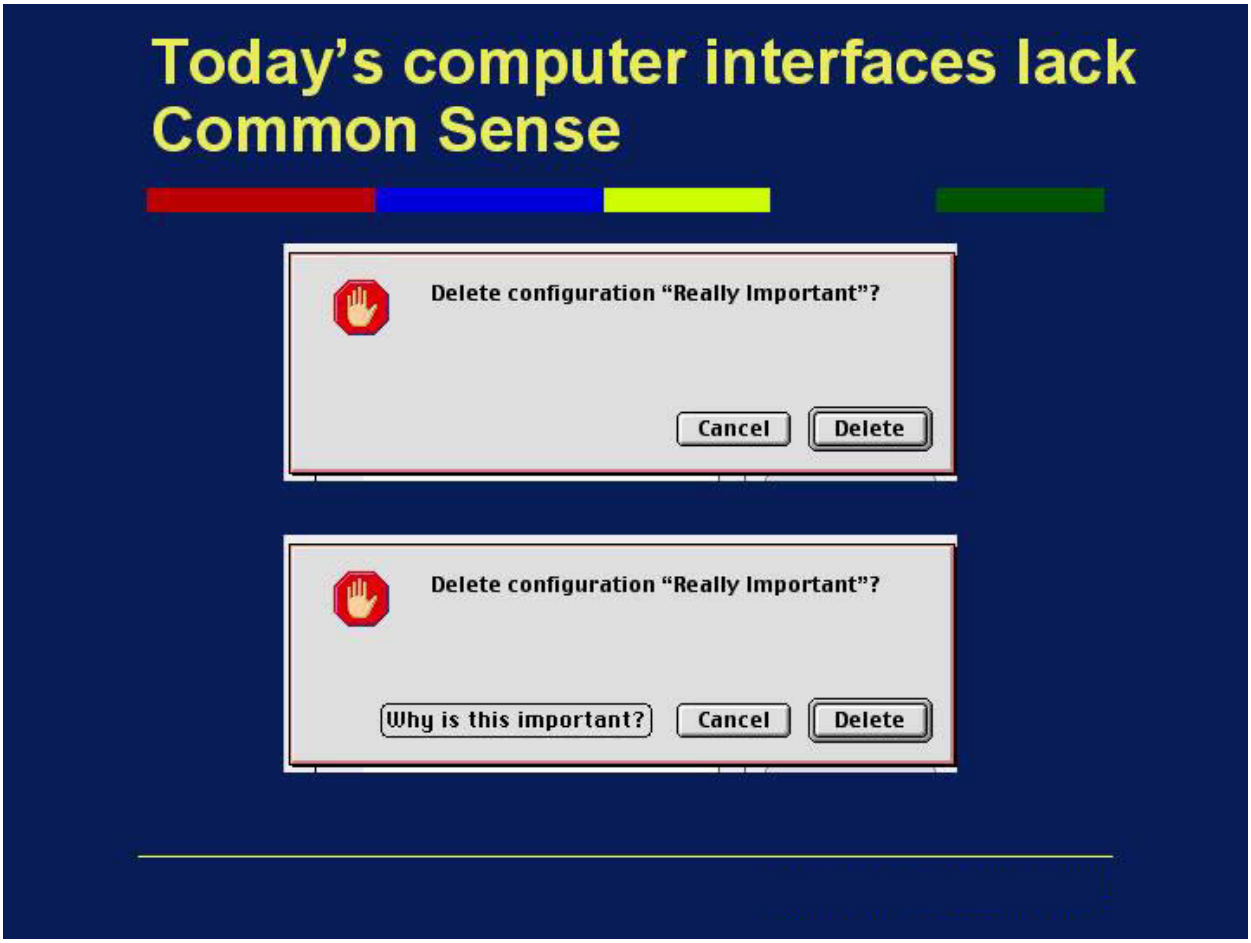
Why now?


Why now?
Previous efforts in Common Sense have had only limited success
Now, we have
Several very large common sense knowledge bases
Better ways of using common sense knowledge
Motivation to use it in interactive applications
... so maybe it's time to give Common Sense another chance

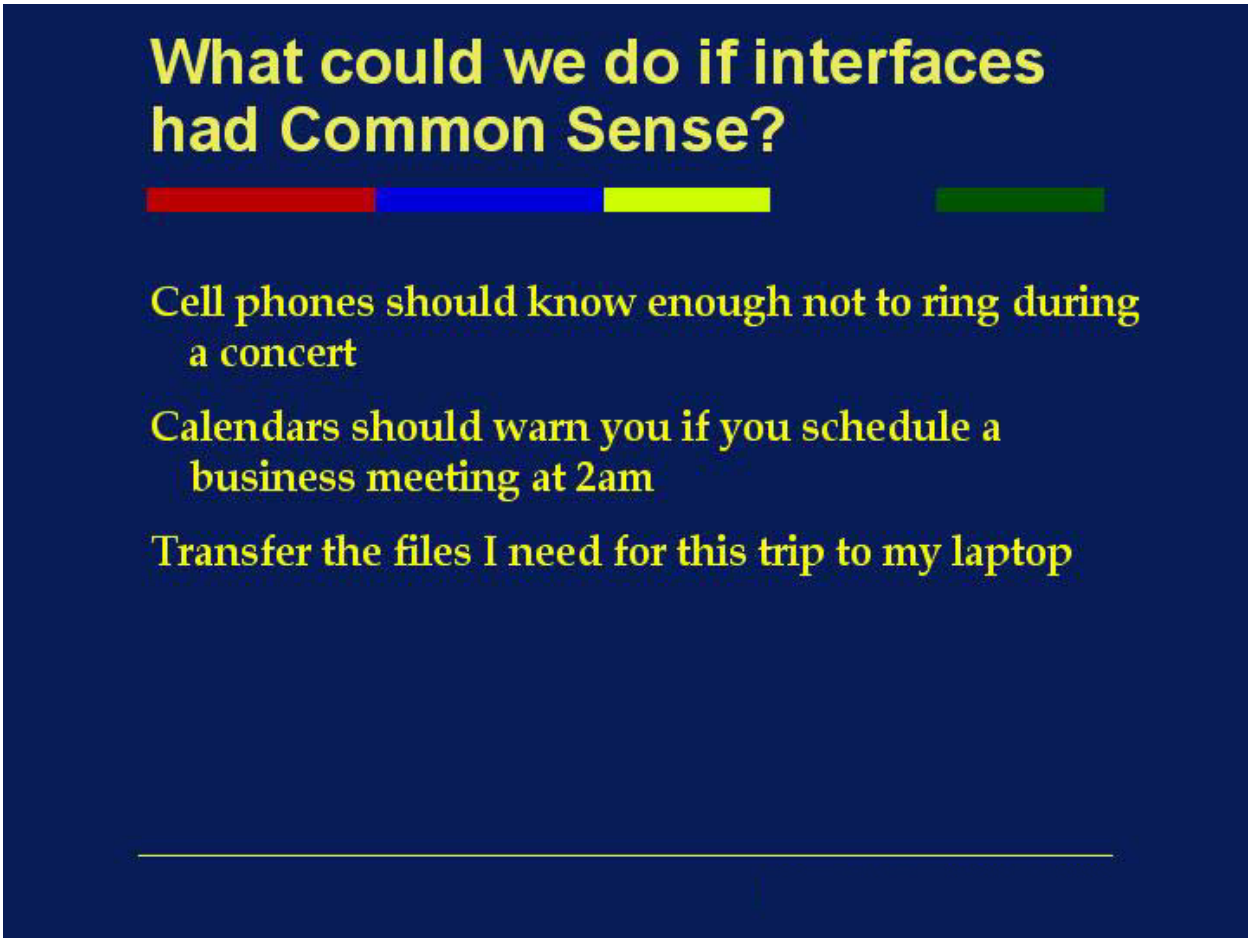
Collecting Common Sense knowledge



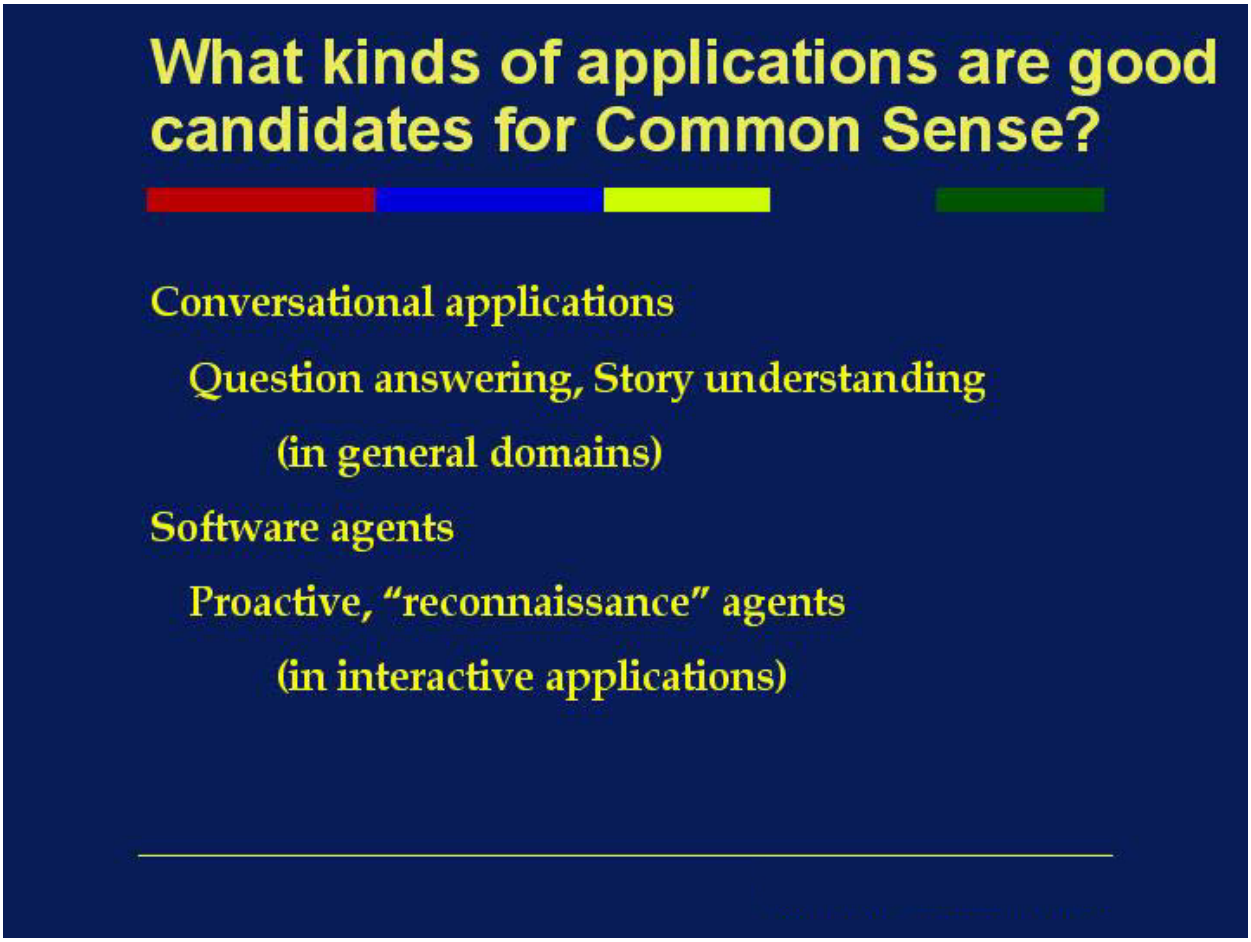
Today’s computer interfaces lack Common Sense



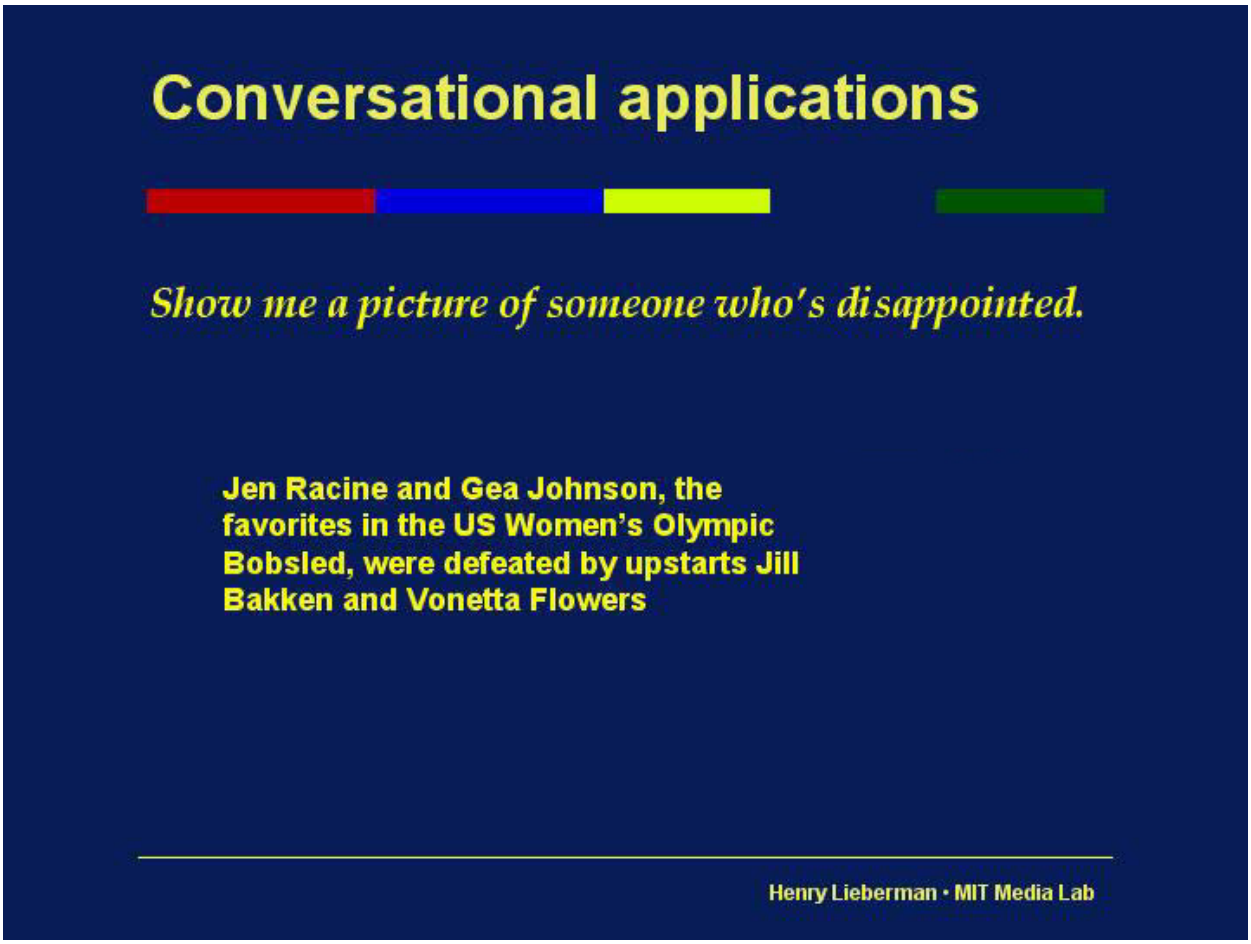
What could we do if interfaces had Common Sense?



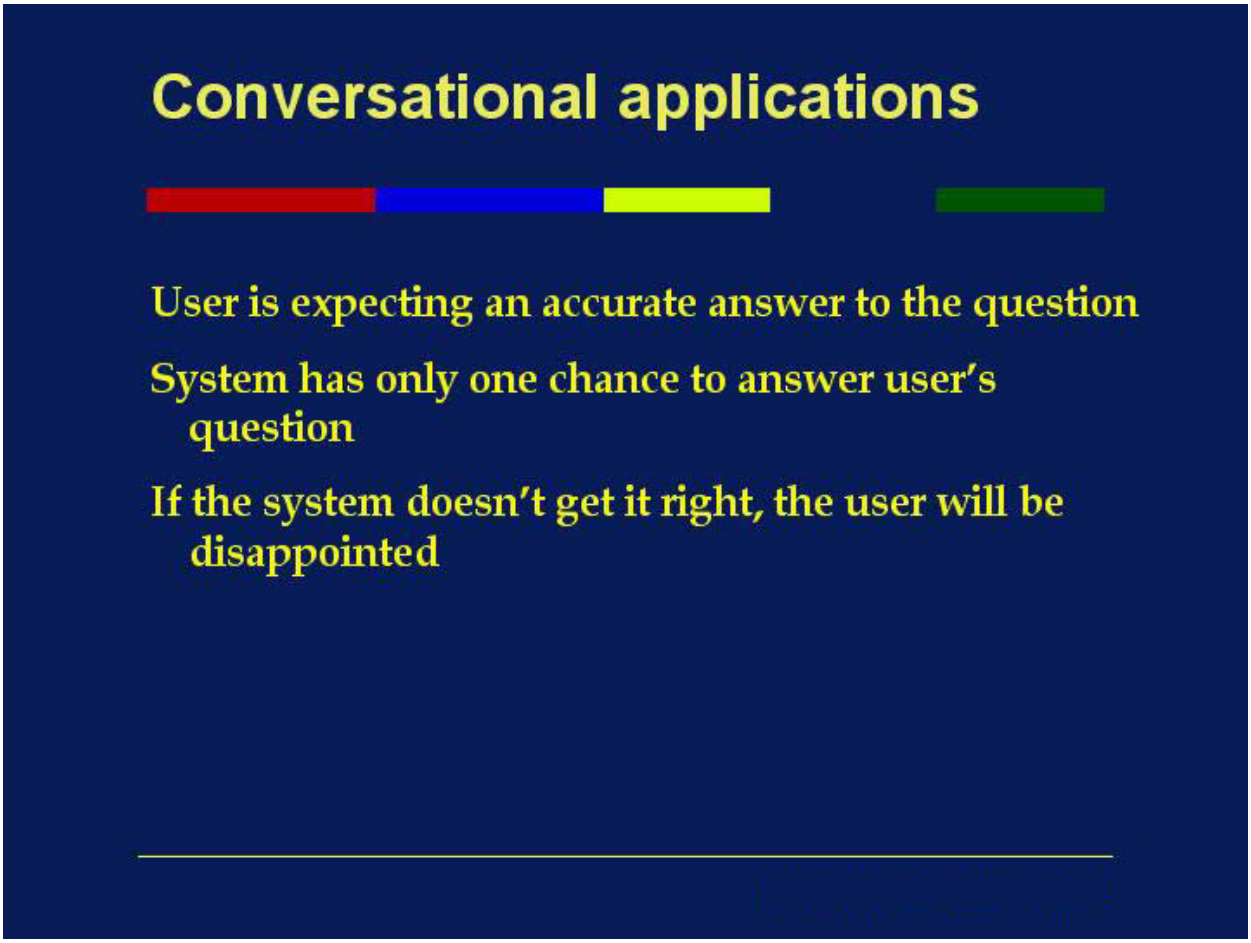
What kinds of applications are good candidates for Common Sense?



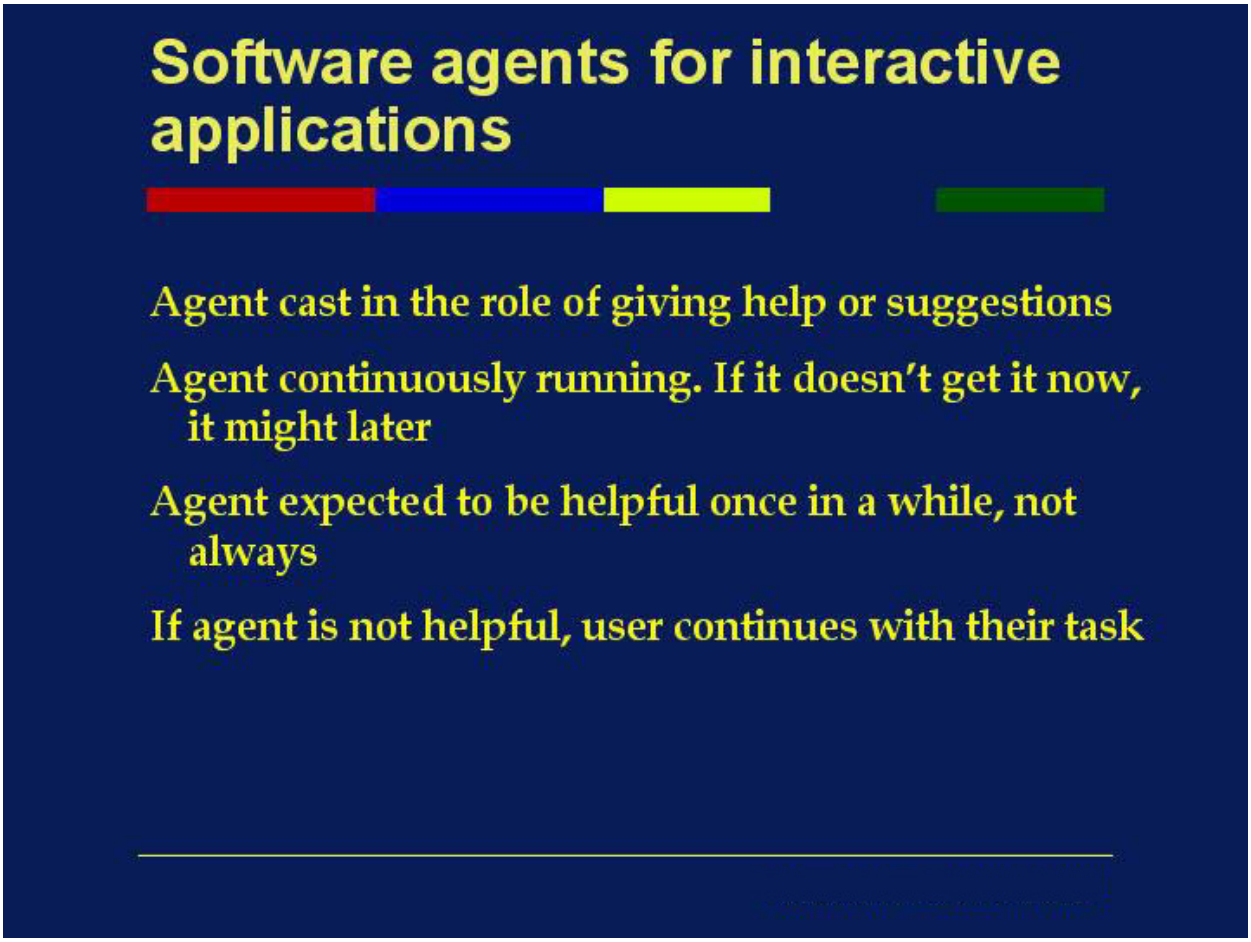
Conversational applications



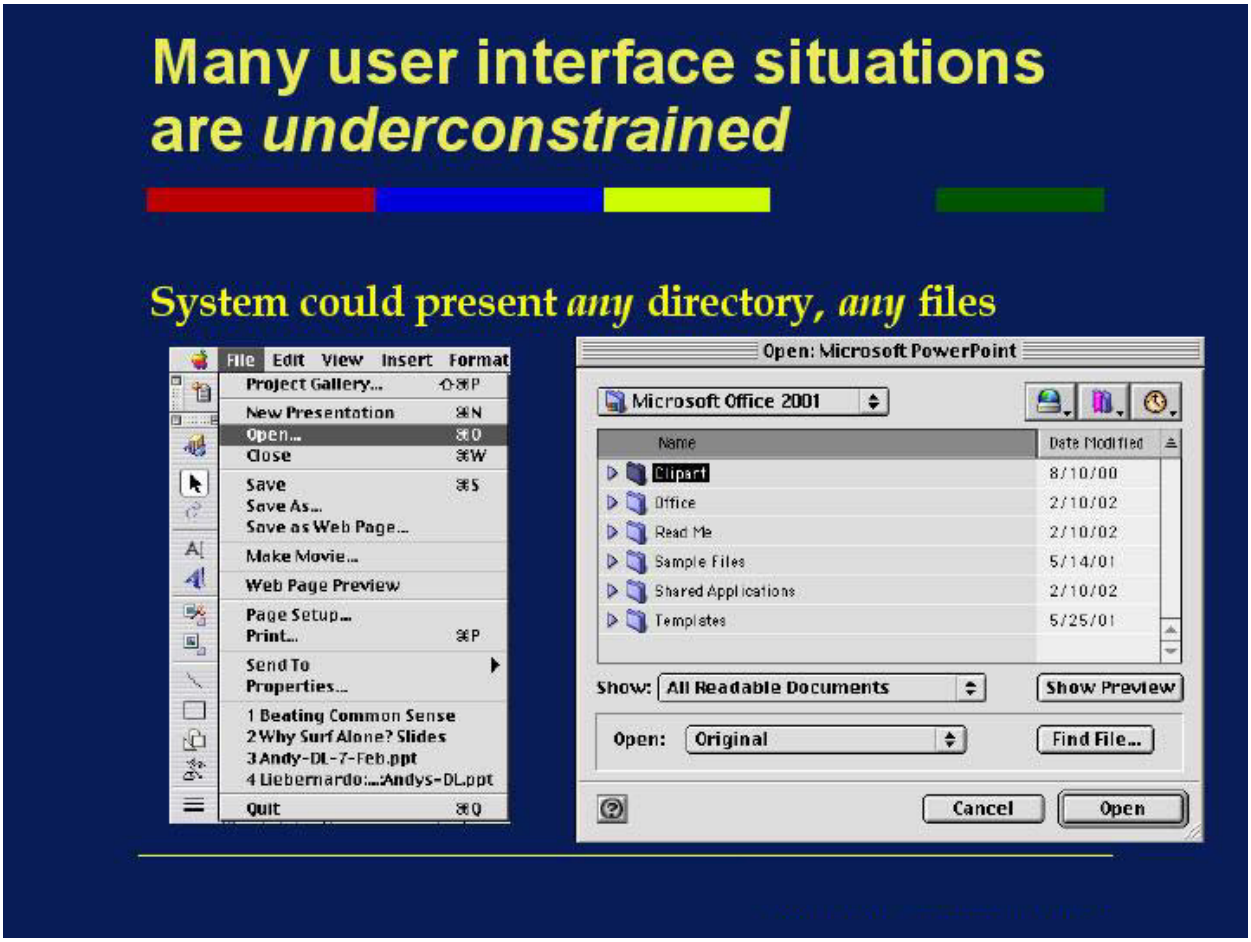
Conversational applications



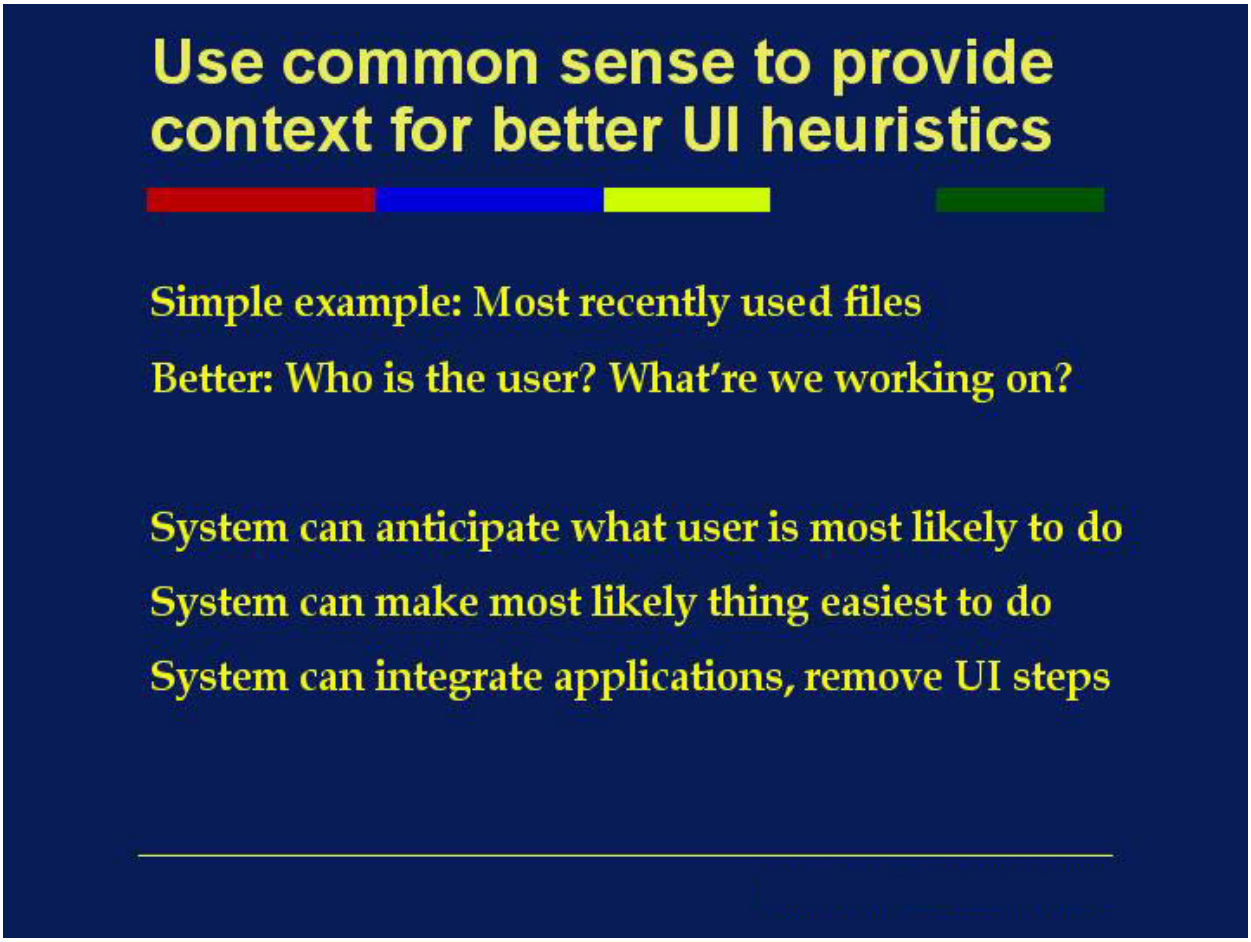
Software agents for interactive applications



Many user interface situations are under constrained



Use common sense to provide context for better UI heuristics



Aria: Annotation and Retrieval Integration Agent

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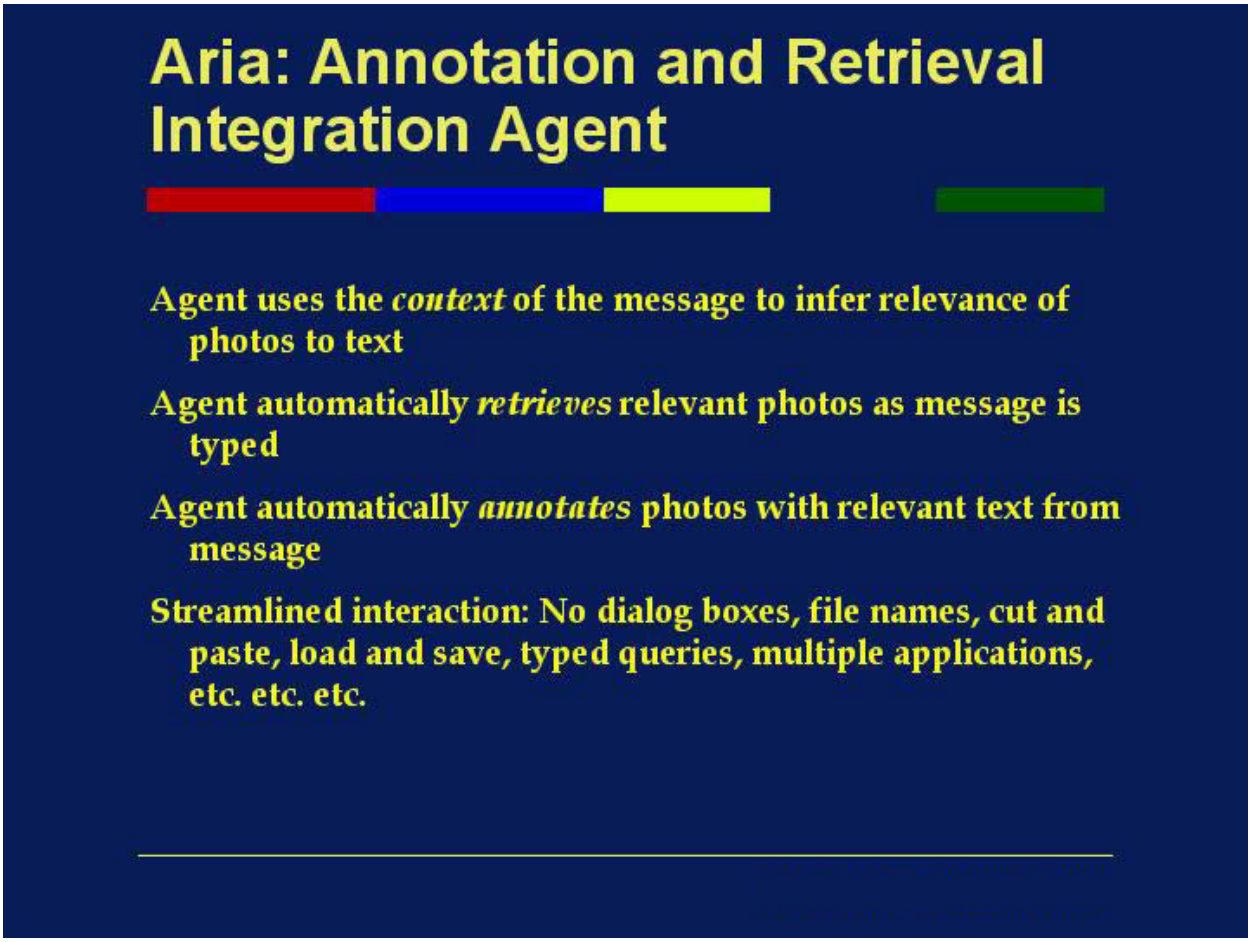
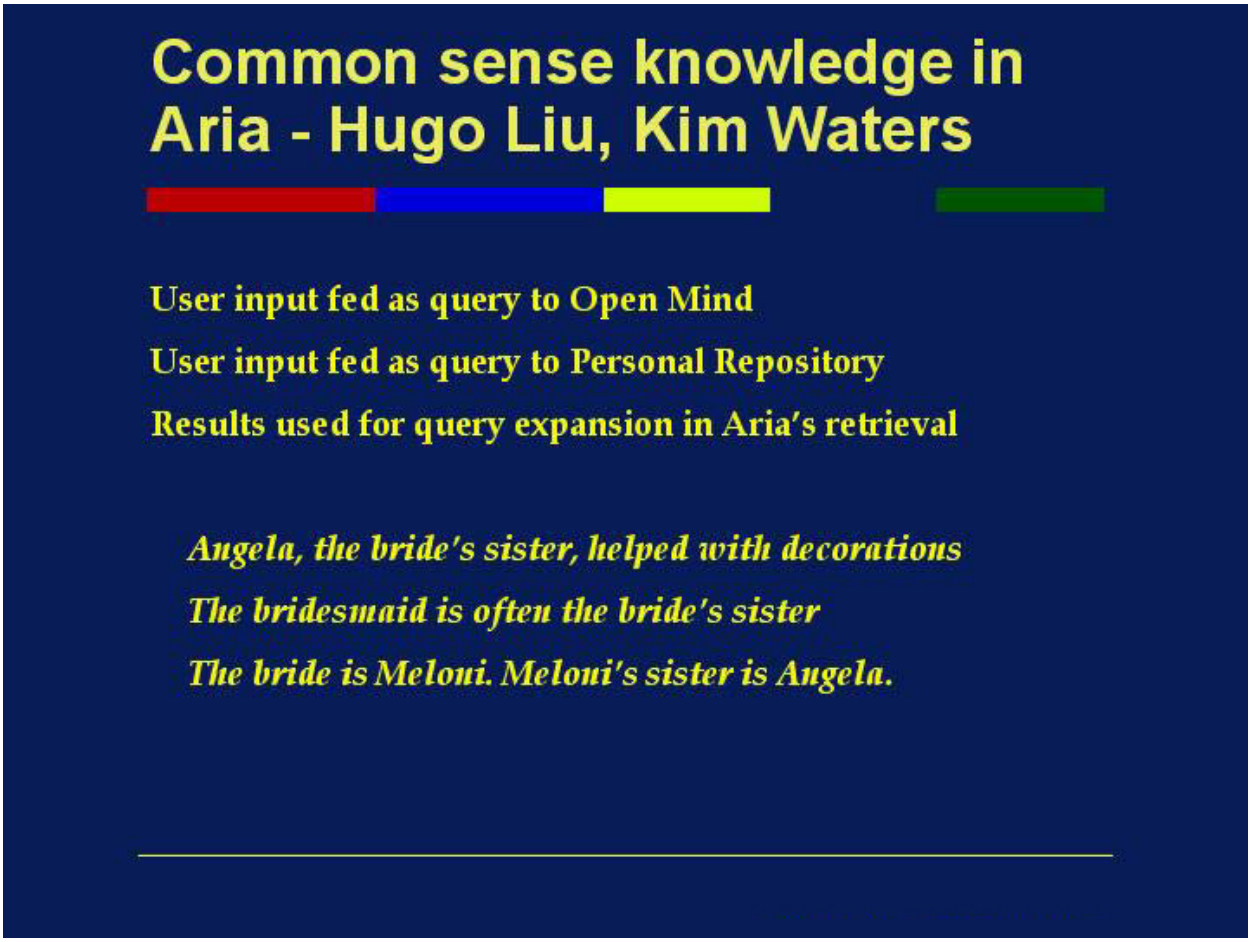
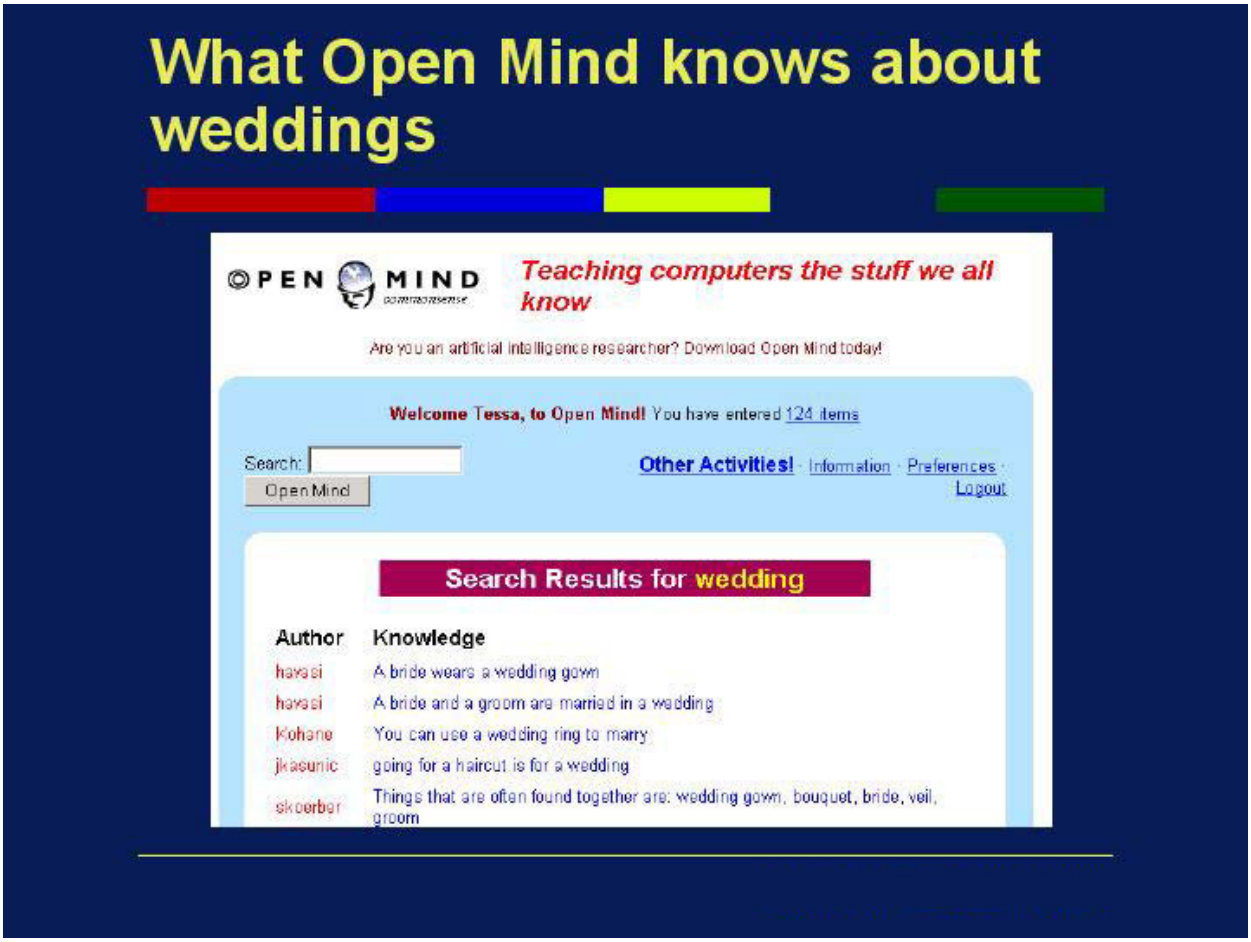


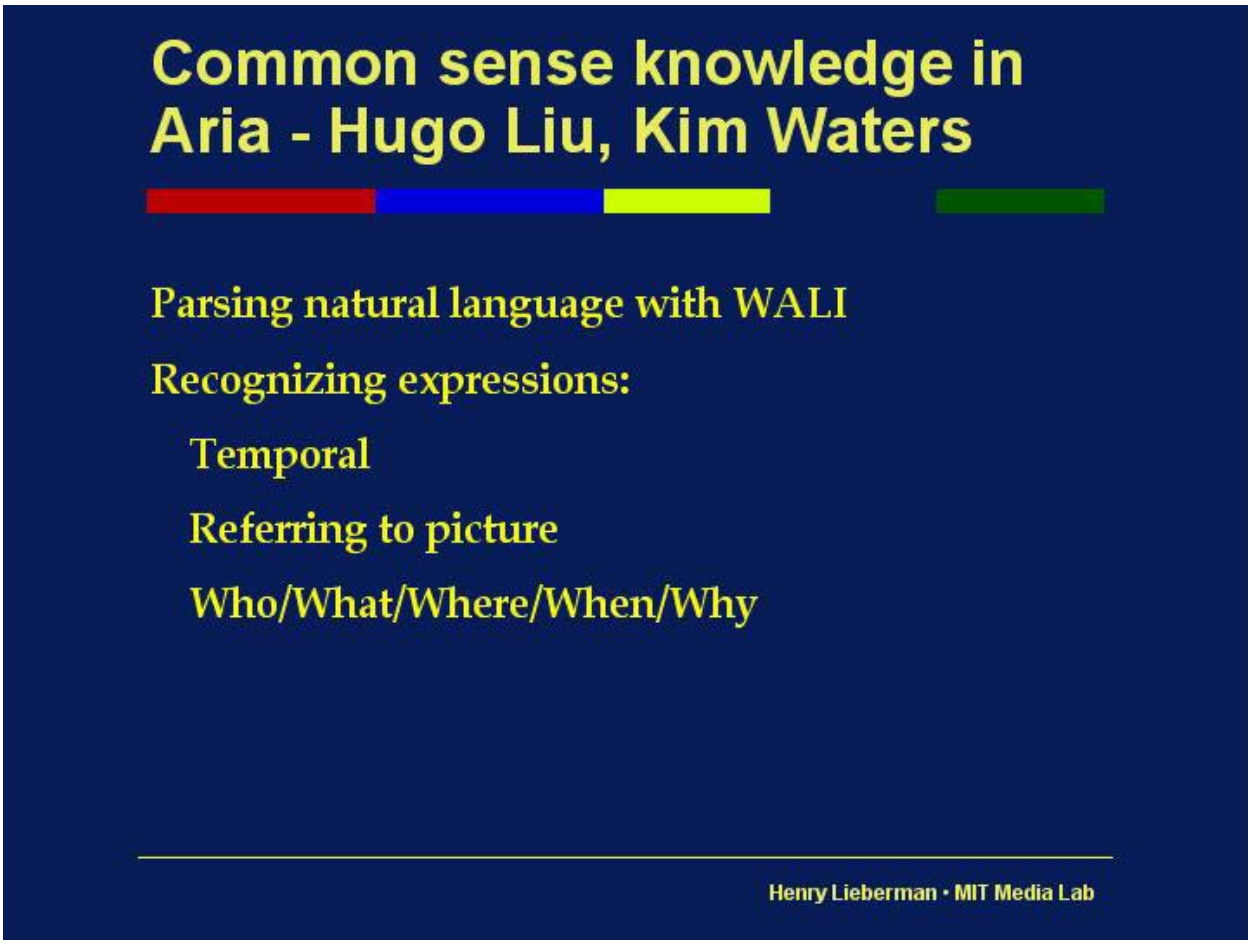
Common sense knowledge in Aria - Hugo Liu, Kim Waters



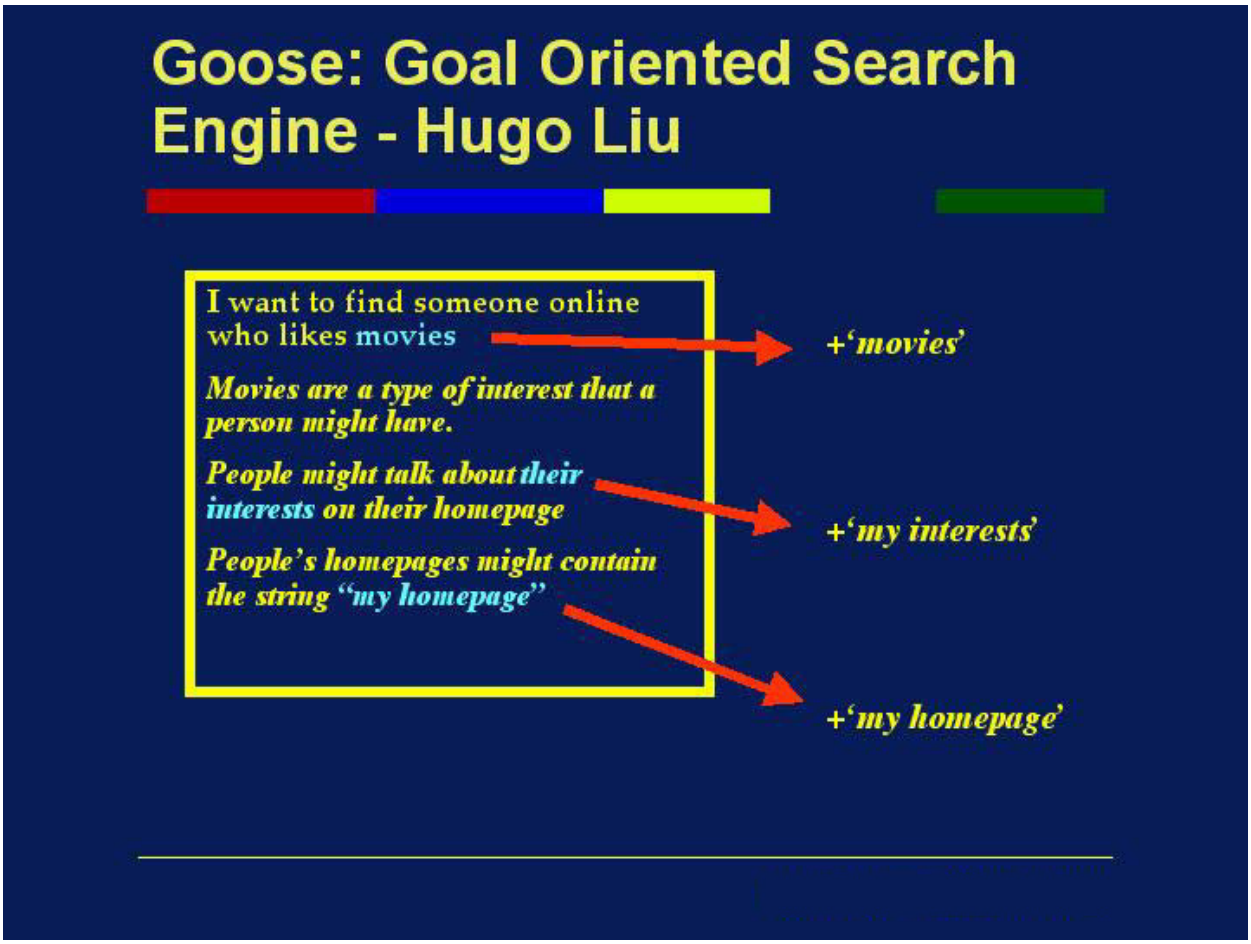
What Open Mind knows about Weddings



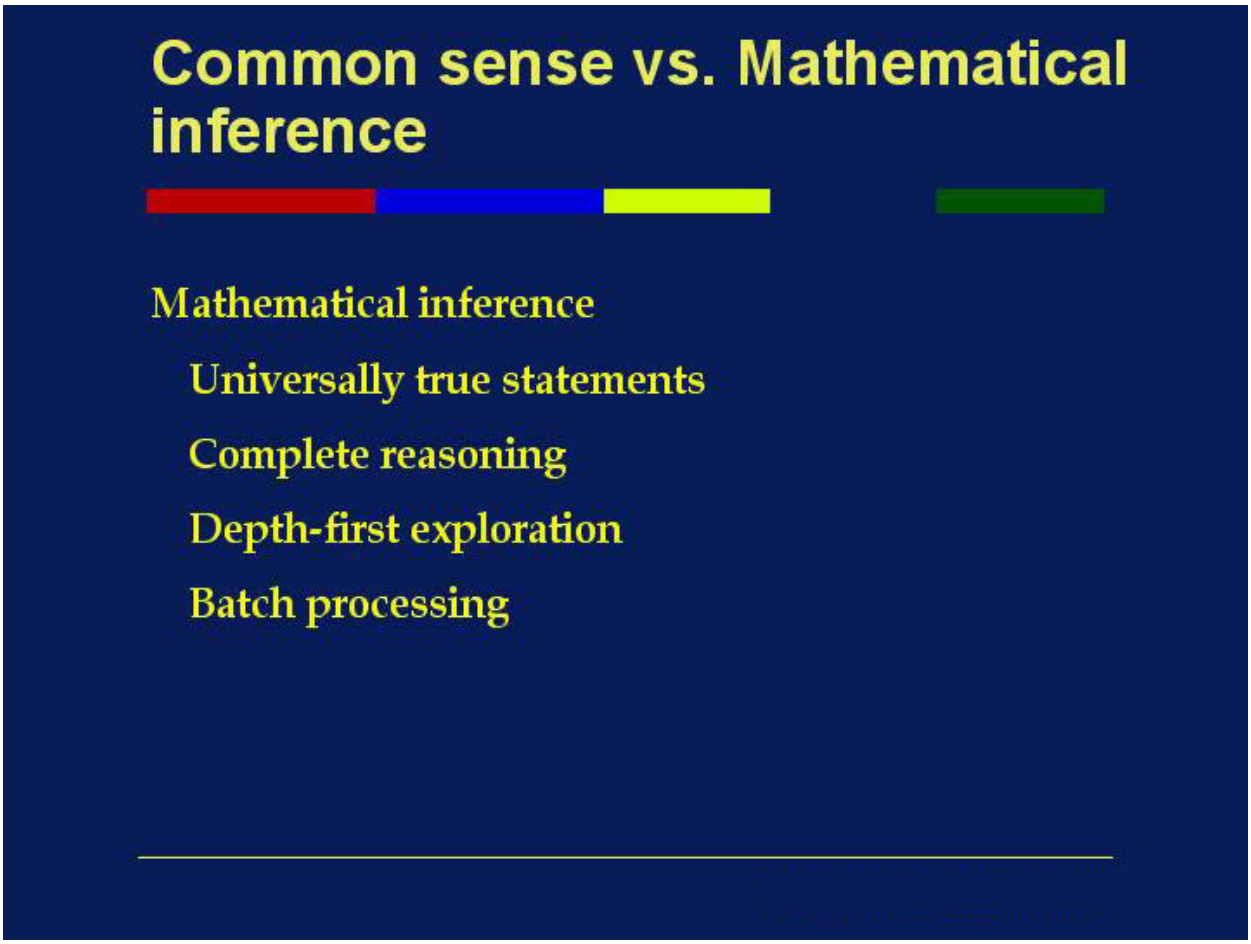
Common sense knowledge in Aria - Hugo Liu



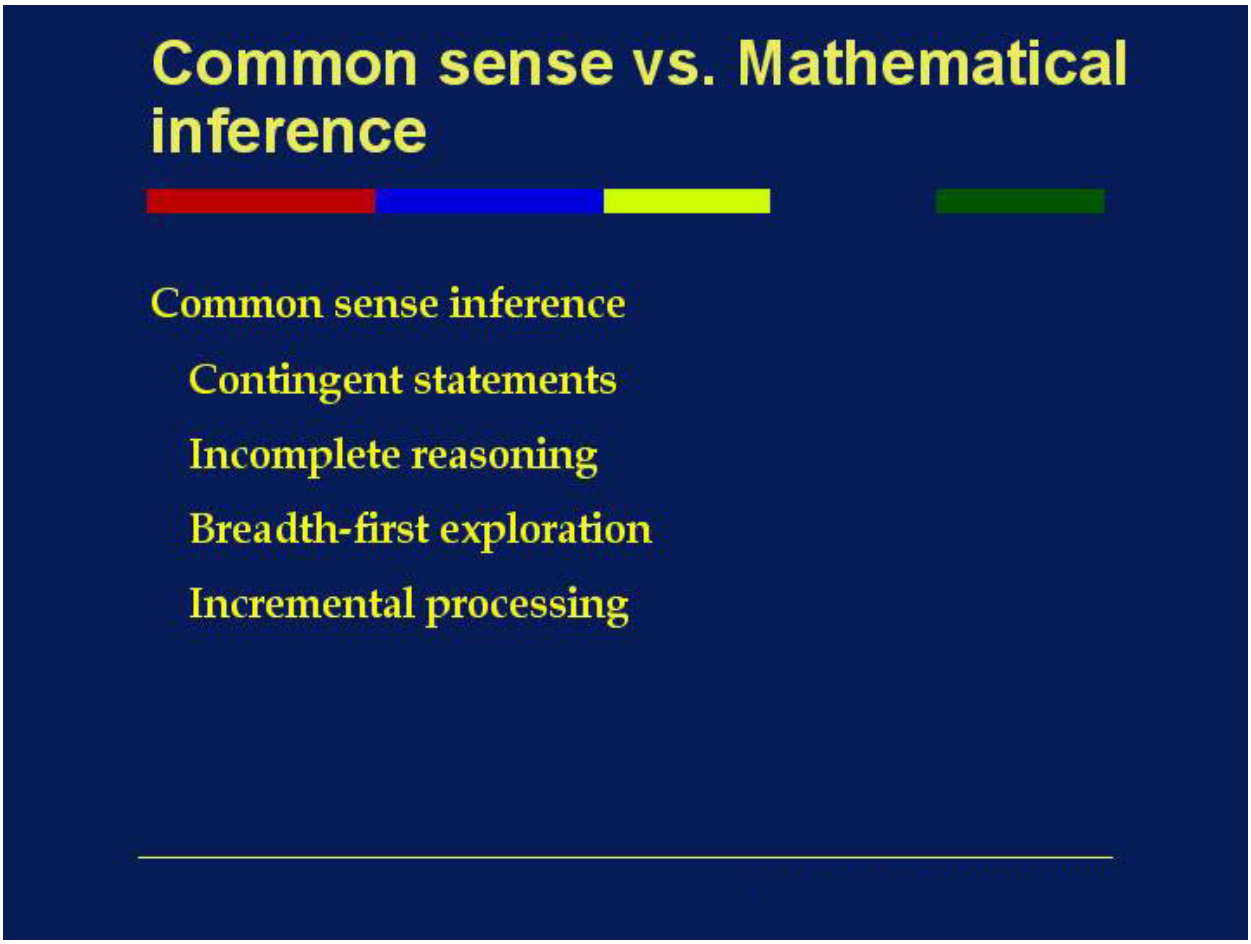
Goose: Goal Oriented Search Engine – Hugo Liu



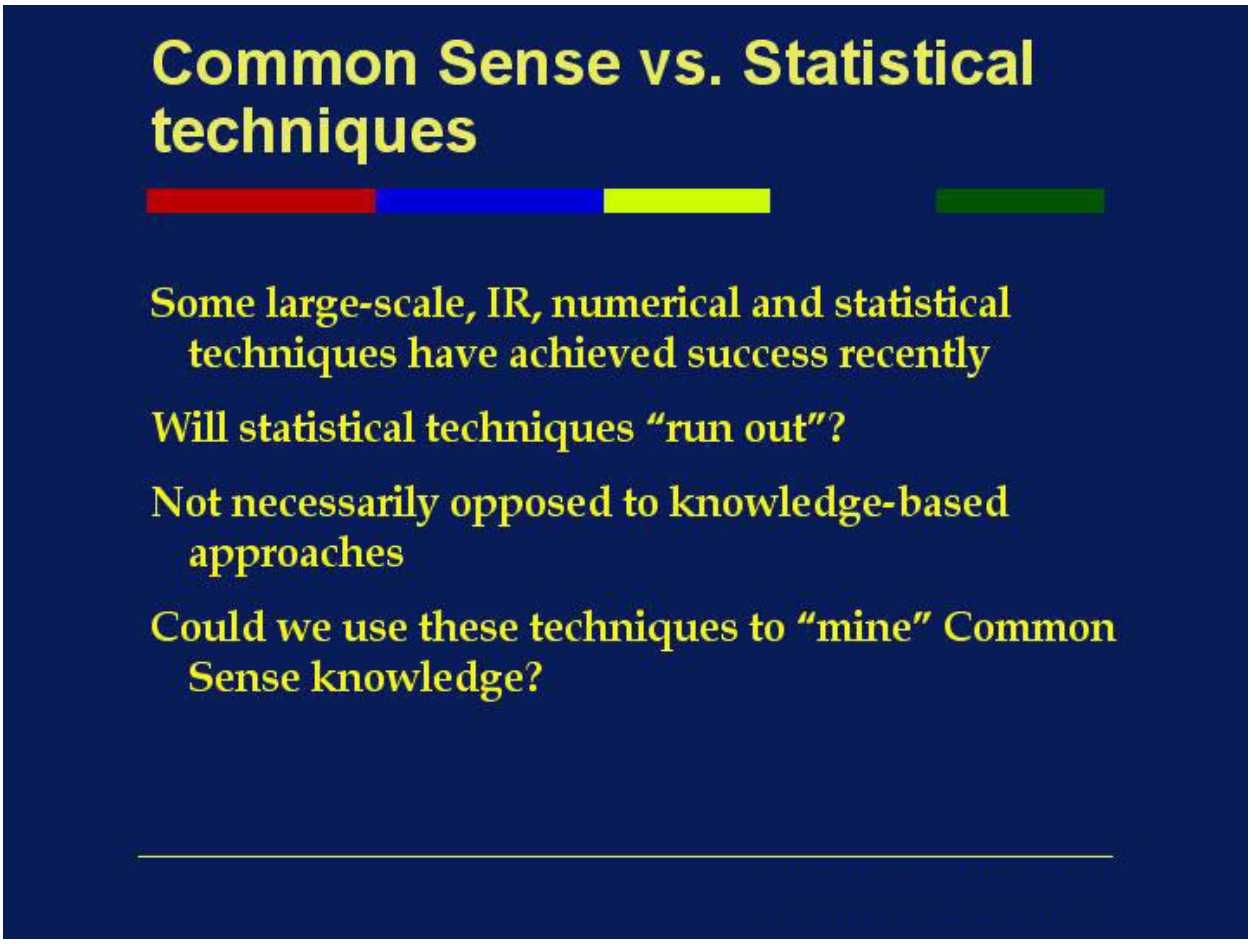
Common Sense vs. Mathematical inference



Common Sense vs. Mathematical inference



Common Sense vs. Statistical techniques



Common sense and the Semantic World