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What I would answer...

- Find a plan that brings about a desired goal/action/state
- Given:
 - knowledge of how the world works...
 - and how our actions change it



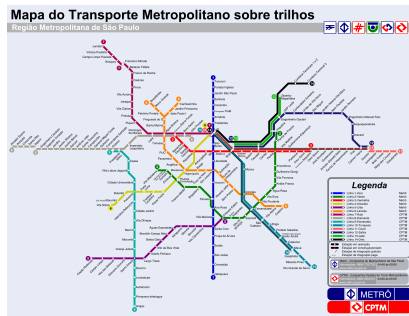
Tourists in São Paulo

- **Goal:** eat at a Churrascaria
- **Knowledge:**
 - metric map
 - topological map
 - semantic map
 - transportation modes
 - time estimates
 - relative locations
 - restaurant taxonomy
 - commonsense knowledge
 - ...



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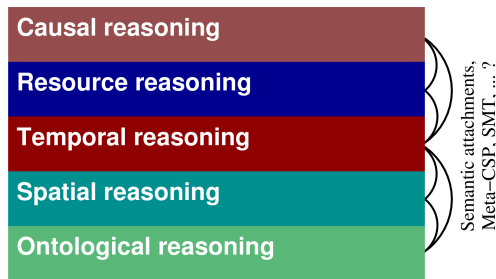
Was this a planning problem?

- Causal knowledge
 - PDDL, HTN/STN, State variables, ...
- Temporal knowledge
 - LTL, TCSP/STP, DTP, Allen's Intervals, INDU, ...
- Resource knowledge
 - Consumable, reusable, multi-capacity, binary, ...
- Spatial knowledge
 - RCC, Cardinal Relations, Point Algebras, ...
- Ontologies, commonsense knowledge
 - OWL-DL, OpenMind (Indoor Robot Commonsense), OpenCyc, ...
- ...



If the answer is “Yes”...

- ... let's remember that we *have* inference procedures / solvers for many of these sub-problems
- ... and that integration methodologies which leverage these capabilities *have* been developed



Not just an academic curiosity...

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... just ask Tony Cohn!
(and go see his invited
talk tomorrow)