









- Planning/Search transforms to reasoning about properties
 - How do actions impact properties describing current conditions of the world?
 - Challenge example: Making French Toast

STRIPS

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- A simplified property-based planning representation and solver
- <P, O, I, G>
 - P properties or conditions
 - O operators of form <preconditions, postconditions>
 - I initial conditions (initial state set)
 - G goal conditions (goal state set)
- BlocksWorld example on board
- Extensions: variable introduction





Shakey

5 layers:

- 1) robot PDP-15
- 2) LowLevelActions: (LISP) (roll) (tilt) (iristo)
- 3) Intermediate Level Actions (push) (go to) contain error-handling to some degree!
- 4) STRIPS planner: construction of sequences of ILA's
- of ILA S
- 5) PLANEX (plan executor)

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- Limitations? (discussion)
- Property Space representation revisited: explicit uncertainty management has become more prevalent, but properties have power!



