

Table S4. Domain objects and slots

	available	clean	cooked	filled	hungry	location	on	open	prepared	seated	thirsty
bottle						•		•			
cupboard								•			
cutting_board						•					
food		•	•			•			•		
glass		•		•		•					
hands	•	•									
knife						•					
plate		•				•					
pot		•				•					
self					•	•				•	•
sponge						•					
spoon		•				•					
stir_spoon		•				•					
stove							•				

The domain objects and their slots are given in Tbl. S4. All slots have boolean value domains with two exceptions:

- $\text{available}(\text{hands})$ is an integer. The actions implement the constraint $0 \leq \text{available}(\text{hands}) \leq 2$.
- $\text{location}(\text{object})$ is a symbolic value. Allowed values for the different objects are given in Tbl. S5 (these constraints are again implemented by the actions).