Our method leverages boolean compositional value functions (Nangue Tasse et al., 2020) and pretrained LLM representations to enable compositional generalization in a language-conditioned goal-reaching task.

**METHODS**
- Pretrain compositional value functions for each task attribute ("pick up the red object")
- Learn to compose value functions. Condition layout on the mission description ("pick up the red key")

**RESULTS**
- Evaluate the number of steps to learn tasks in series with shared attributes.
- Learning held-out tasks requires substantially fewer or no additional learning steps.
- Compositional generalization from combining compositional value function and language representations.

Our BabyAI domain consists of goal-reaching tasks in a gridworld. The agent must navigate to the correct object and pick it up while avoiding four distractor objects. Objects have type and color attributes.