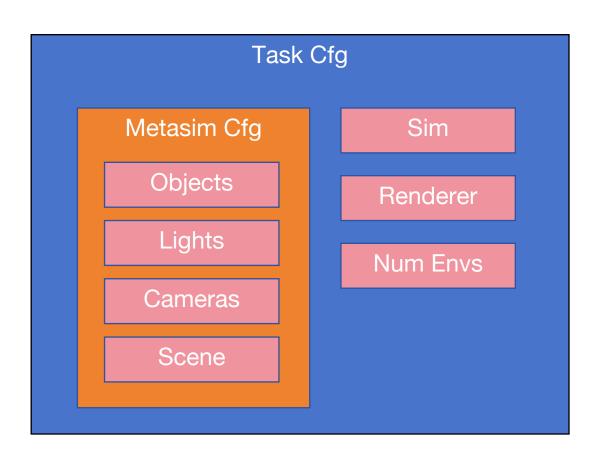
Design Principles

Metasim is a standalone simulator, can be used for different purposes.

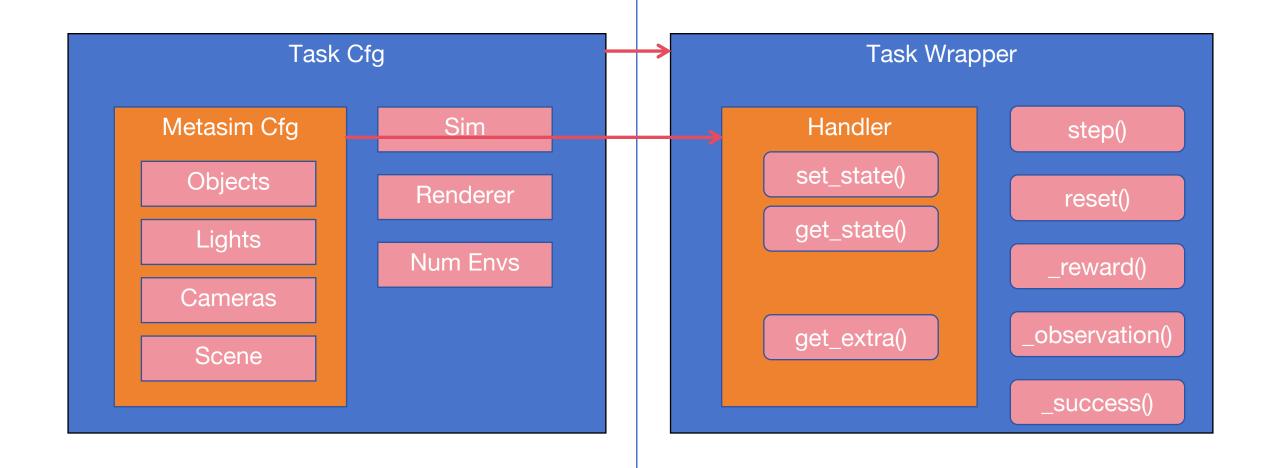
Cfg only describes simulation-related static properties.

It must be easy to either migrate a new task, or write a new task from scratch.

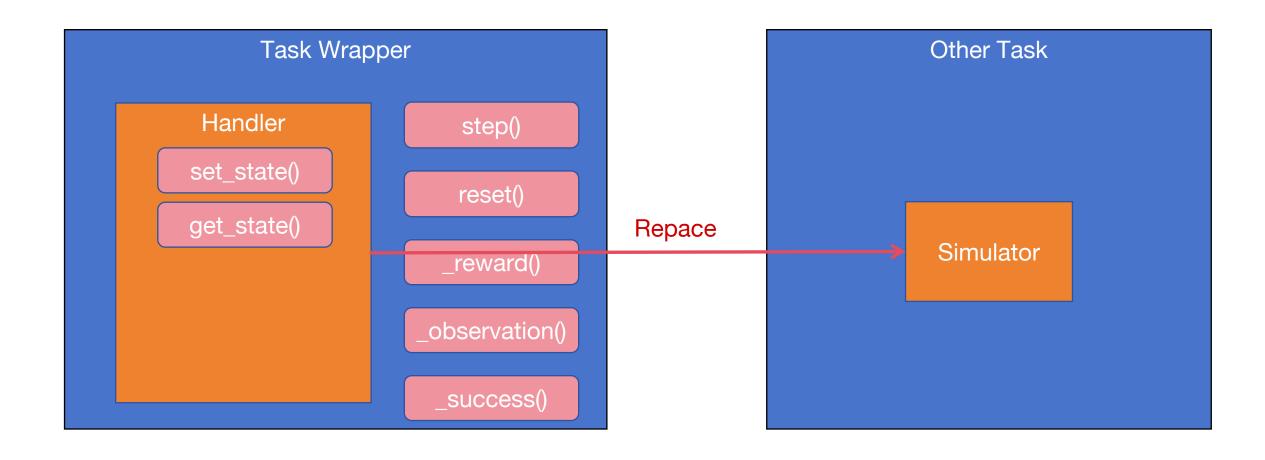
Config Layers



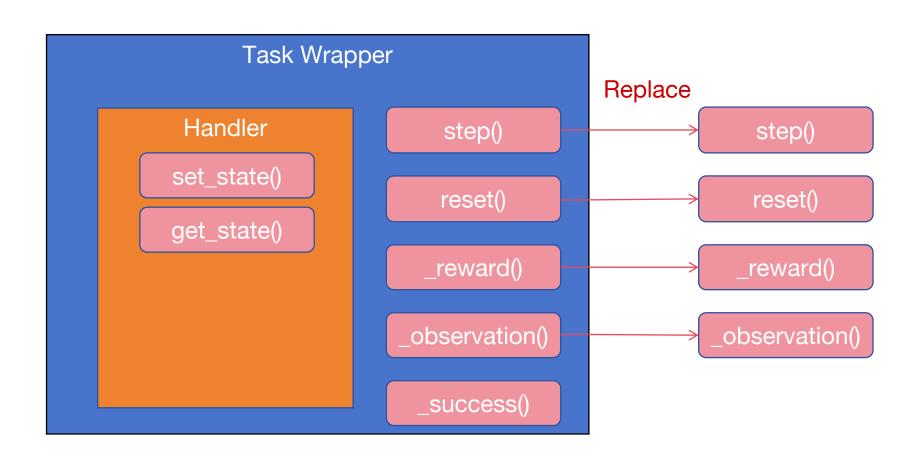
Wrapper Layers



Customize Tasks: Approach 1



Customize Tasks: Approach 2



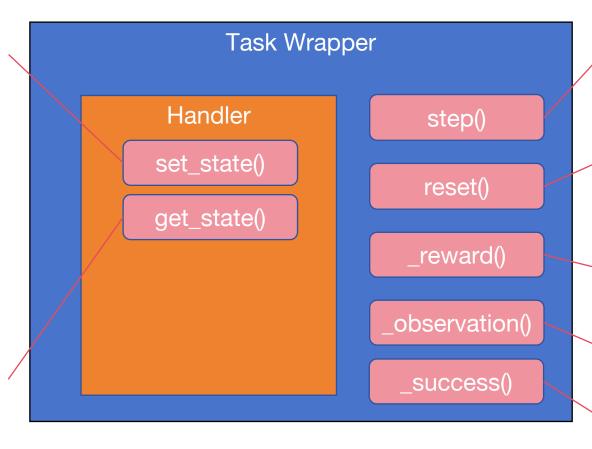
APIs

Set states, including dynamics and static states. Use dict to specify

Need to include more simspecific and static states.

Get states, including dynamics and static states. Use dict to specif.

Need to include more simspecific and static states.



Step the task (including sim and all maintained info)

Reset the task. Use set_extra() to do domain randomization on static properties

Defines reward functions here

Defines observation here

Defines success criteria here

RoboVerse Learn

