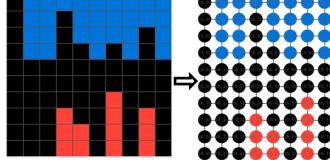
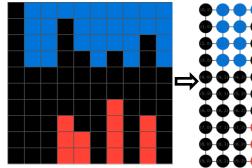


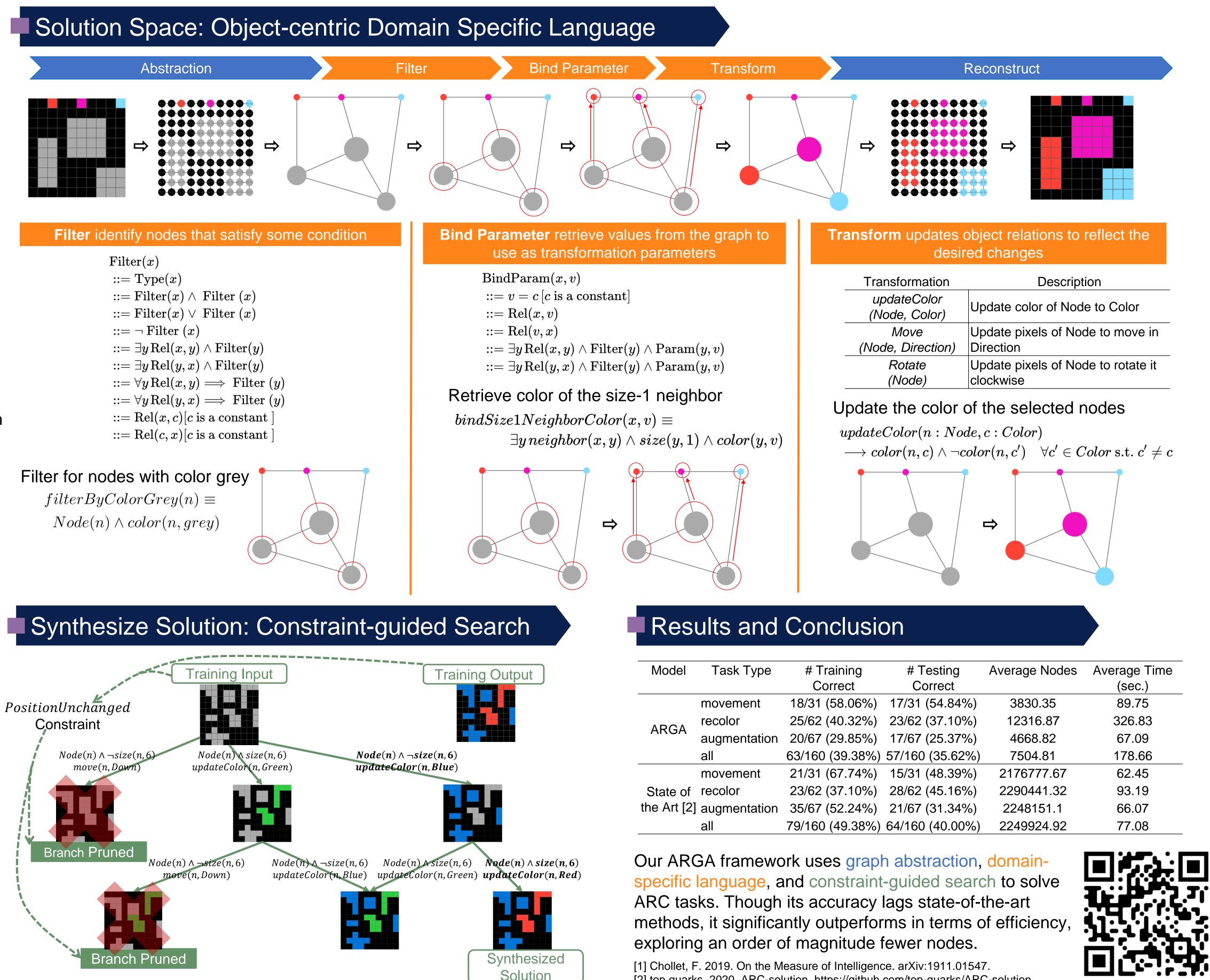
The Abstraction and Reasoning Corpus (ARC) [1] is a collection of 1000 image-based reasoning tasks. We propose Abstract Reasoning with Graph Abstractions (ARGA): an object-centric framework for solving the ARC











Graphs, Constraints and Search for the Abstraction and Reasoning Corpus Yudong Xu¹ - Elias B. Khalil² - Scott Sanner³

odel	Task Type	# Training	# Testing	Average Nodes	Average Time
		Correct	Correct		(sec.)
GA	movement	18/31 (58.06%)	17/31 (54.84%)	3830.35	89.75
	recolor	25/62 (40.32%)	23/62 (37.10%)	12316.87	326.83
	augmentation	20/67 (29.85%)	17/67 (25.37%)	4668.82	67.09
	all	63/160 (39.38%)	57/160 (35.62%)	7504.81	178.66
	movement	21/31 (67.74%)	15/31 (48.39%)	2176777.67	62.45
	recolor	23/62 (37.10%)	28/62 (45.16%)	2290441.32	93.19
	augmentation	35/67 (52.24%)	21/67 (31.34%)	2248151.1	66.07
	all	79/160 (49.38%)	64/160 (40.00%)	2249924.92	77.08

[2] top quarks. 2020. ARC-solution. https://github.com/top-quarks/ARC-solution.