

Main results on 57 simulation tasks from 3 benchmarks.

Method	Adroit			Dexart			
	Hammer	Door	Pen	Laptop	Faucet	Toilet	Bucket
DP3	100 ± 0	62 ± 4	43 ± 6	81 ± 2	36 ± 3	71 ± 3	26 ± 2
DP3 w. MBA	100 ± 0	74 ± 1	65 ± 1	78 ± 6	35 ± 1	70 ± 2	26 ± 2
DP	45 ± 5	37 ± 2	13 ± 2	31 ± 4	16 ± 1	26 ± 8	18 ± 2
DP w. MBA	94 ± 5	45 ± 1	53 ± 3	42 ± 2	16 ± 4	45 ± 4	13 ± 0

Method	Meta-World (Easy)								
	Button Press	Button Press Topdown	Button Press Topdown Wall	Button Press Wall	Coffee Button	Dial Turn	Door Close		
DP3	100 ± 0	100 ± 0	99 ± 2	99 ± 1	100 ± 0	66 ± 1	100 ± 0		
DP3 w. MBA	100 ± 0	100 ± 0	100 ± 0	100 ± 0	100 ± 0	85 ± 4	100 ± 0		
DP	99 ± 1	98 ± 1	96 ± 3	97 ± 3	99 ± 1	63 ± 10	100 ± 0		
DP w. MBA	100 ± 0	100 ± 0	100 ± 0	100 ± 0	100 ± 0	63 ± 6	100 ± 0		

Method	Meta-World (Easy)								
	Door Lock	Door Open	Door Unlock	Drawer Close	Drawer Open	Faucet Close	Faucet Open	Handle Press	Handle Pull
DP3	98 ± 2	99 ± 1	100 ± 0	100 ± 0	100 ± 0	100 ± 0	100 ± 0	100 ± 0	53 ± 11
DP3 w. MBA	99 ± 1	100 ± 0	100 ± 0	100 ± 0	100 ± 0	100 ± 0	100 ± 0	100 ± 0	45 ± 2
DP	86 ± 8	98 ± 3	98 ± 3	100 ± 0	93 ± 3	100 ± 0	100 ± 0	81 ± 4	27 ± 22
DP w. MBA	87 ± 2	100 ± 0	94 ± 4	98 ± 1	87 ± 0	95 ± 3	100 ± 0	88 ± 4	43 ± 3

Method	Meta-World (Easy)								
	Handle Press Side	Handle Pull Side	Lever Pull	Plate Slide	Plate Slide Back	Plate Slide Back Side	Plate Slide Side	Reach	
DP3	100 ± 0	85 ± 3	79 ± 8	100 ± 1	99 ± 0	100 ± 0	100 ± 0	24 ± 1	
DP3 w. MBA	100 ± 0	71 ± 4	81 ± 6	100 ± 0	100 ± 0	100 ± 0	100 ± 0	32 ± 5	
DP	100 ± 0	23 ± 17	49 ± 5	83 ± 4	99 ± 0	100 ± 0	100 ± 0	18 ± 2	
DP w. MBA	100 ± 0	36 ± 0	53 ± 1	91 ± 0	100 ± 0	100 ± 0	100 ± 0	26 ± 3	

Method	Meta-World (Easy)				Meta-World (Medium)				
	Reach Wall	Window Close	Window Open	Peg Unplug Side	Basketball	Bin Picking	Box Close	Coffee Pull	Coffee Push
DP3	68 ± 3	100 ± 0	100 ± 0	75 ± 5	98 ± 2	34 ± 30	42 ± 3	87 ± 3	94 ± 3
DP3 w. MBA	63 ± 4	100 ± 0	97 ± 2	84 ± 3	100 ± 0	54 ± 23	56 ± 2	98 ± 1	93 ± 2
DP	59 ± 7	100 ± 0	100 ± 0	74 ± 3	85 ± 6	15 ± 4	30 ± 5	34 ± 7	67 ± 4
DP w. MBA	49 ± 2	100 ± 0	76 ± 8	68 ± 5	98 ± 0	45 ± 8	36 ± 7	59 ± 7	67 ± 4

Method	Meta-World (Medium)							Meta-World (Hard)		
	Hammer	Peg Insert Side	Push Wall	Soccer	Sweep	Sweep Into		Assembly	Hand Insert	Pick Out of Hole
DP3	76 ± 4	69 ± 7	49 ± 8	18 ± 3	96 ± 3	15 ± 5		99 ± 1	14 ± 4	14 ± 9
DP3 w. MBA	98 ± 2	75 ± 5	94 ± 3	27 ± 3	99 ± 1	34 ± 25		100 ± 0	10 ± 1	40 ± 2
DP	15 ± 6	34 ± 7	20 ± 3	14 ± 4	18 ± 8	10 ± 4		15 ± 1	9 ± 2	0 ± 0
DP w. MBA	89 ± 5	53 ± 0	69 ± 3	16 ± 2	54 ± 8	50 ± 4		84 ± 5	34 ± 3	0 ± 0

Method	Meta-World (Hard)		Meta-World (Very Hard)					Average
	Push	Push Back	Shelf Place	Disassemble	Stick Pull	Stick Push	Pick Place Wall	
DP3	51 ± 3	0 ± 0	17 ± 10	69 ± 4	27 ± 8	97 ± 4	35 ± 8	71.3
DP3 w. MBA	67 ± 4	0 ± 0	73 ± 1	98 ± 1	65 ± 5	100 ± 0	98 ± 1	77.5
DP	30 ± 3	0 ± 0	11 ± 3	43 ± 7	11 ± 2	63 ± 3	5 ± 1	53.6
DP w. MBA	25 ± 0	0 ± 0	64 ± 2	71 ± 3	64 ± 1	100 ± 0	100 ± 0	67.8