Results on Clipart G: Global Alignment, I: Instance, CTX: Context Vector, L: Local, P: Pixel

Method	G	I	СТХ	L	P	aero	bcycle	bird	boat	bottle	bus	car	cat	chair	cow	table	dog	hrs	bike	prsn	plnt	sheep	sofa	train	tv	MAP
Faster RCNN						35.6	52.5	24.3	23.0	20.0	43.9	32.8	10.7	30.6	11.7	13.8	6.0	36.8	45.9	48.7	41.9	16.5	7.3	22.9	32.0	27.8
BDC-Faster	√					20.2	46.4	20.4	19.3	18.7	41.3	26.5	6.4	33.2	11.7	26.0	1.7	36.6	41.5	37.7	44.5	10.6	20.4	33.3	15.5	25.6
DA-Faster	√	\checkmark				15.0	34.6	12.4	11.9	19.8	21.1	23.2	3.1	22.1	26.3	10.6	10.0	19.6	39.4	34.6	29.3	1.0	17.1	19.7	24.8	19.8
	√					30.5	48.5	33.6	24.8	41.2	48.9	32.4	17.2	34.5	55.0	19.0	13.6	35.1	66.2	63.0	45.3	12.5	22.6	45.0	38.9	36.4
				✓		19.8	50.7	25.4	21.7	30.2	47.2	27.1	8.5	33.5	26.8	14.0	11.7	31.5	62.0	49.9	39.6	9.1	23.8	39.5	38.4	30.5
Proposed	√		✓			31.7	55.2	30.9	26.8	43.4	47.5	40.0	7.9	36.7	50.0	14.3	18.0	29.2	68.1	62.3	50.4	13.4	24.5	54.2	45.8	37.5
	√		√	✓		26.2	48.5	32.6	33.7	38.5	54.3	37.1	18.6	34.8	58.3	17.0	12.5	33.8	65.5	61.6	52.0	9.3	24.9	54.1	49.1	38.1
	√		✓	✓	✓	31.1	53.7	28.9	24.9	40.3	49.0	38.1	14.6	41.9	43.8	15.3	7.2	27.9	75.5	57.3	41.8	6.7	23.3	48.5	44.1	35.7

Strong alignment methods (BDC-Faster, DA-Faster) degrade performance.

• 9.8% improvement by just replacing the global domain classifier's

Results on Watercolor

- 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													D T . S									
	AP on a target domain											- 3										
Method	G	Ι (CTX	LF	bike	bird	car	cat	dog	prsn	MAP	•	100	1								
Faster RCNN					68.8	46.8	37.2	32.7	21.3	60.7	44.6		1		-							
BDC-Faster	✓				68.6	48.3	47.2	26.5	21.7	60.5	45.5		10	1								
DA-Faster	✓	\checkmark			75.2	40.6	48.0	31.5	20.6	60.0	46.0											
	√										49.8							_		_		_
				✓	79.4	54.8	47.2	37.1	31.5	62.4	52.1	•		. L	OC	al-l	eve	y le	vas	s ef	fect	ive
Proposed	✓		\checkmark		71.3	52.0	46.6	36.2	29.2	67.3	50.4											
	✓		\checkmark	✓	82.3	55.9	46.5	32.7	35.5	66.7	53.3			_		_	_	_		_		
	✓		\checkmark	√ √	90.5	54.8	49.4	38.6	38.8	67.9	56.7	4)rac	cle-	·lev	'el	pe	rfor	ma	nce
Oracle					83.6	59.4	50.7	43.7	39.5	74.5	58.6								•			

9.8%