

Comparison

	RVC2018_Best	RVC2020_1st	RVC2020_2nd	SingleDataset- mIoU	FlatMultiDataset- mIoU-1	FlatMultiDataset- mIoU-2	HierarchicalMultiDataset- mIoU	ImprovedHMDataset- mIoU
Evaluated on:		Test data	Test data	Validation data	Validation data			
Cityscapes	80.2	74.7	80.7	0.7399	0.7263		0	
Vistas		40.4	34.2	0.382	0.367		0	
Viper		62.5	40.7	0.496	0.655		0	
WildDash	59.1	45.4	35.2	0.452	0.554*		0	
Ade		31.1	33.2	0.386	0.304		0	
Scannet	48.0	54.6	48.5	-	0.596		0	
KiTTI	69.6	63.9	62.6					

Experiment short description

		location	Batch	mIoU			Remark
FlatMultiDataset- mIoU-1	Flat deeplabv3+ with 189 classes + OHEM threshold 0.7 + 512 feature map + crop 512 + no class weights + rate (1, 12, 24, 36) + backbone OS8 + No pertained +	/netscratch/gautam/semseg/exp_results/all_nine_deeplabv3plus_189c/training/	Epoch: 10+50+70 10—all9 data 50—all9 70—all6 Batch: 4	BestEpoch: .+.+59 • 3.20 mIoU		All9 for first 60 epochs then only 6	SCOPE: results can be improved if training is continued with all9 dataset from 10+50th epoch
FlatMultiDataset- mIoU-2	Flat deeplabv3+ with 191 classes+OHEM threshold 0.6+MS+768Feature 13 epochs with all9 and resumed till 30 epochs with all9,cityvistasade		Batch: N:2,G:12,B:4	TmIoU:2.92			
	Load from 30 epoch with all9 till 10 epoch		Batch: N:3,G:12,B:4	Not Much improvement	Canceled		
	Load from 30 epoch with vistas, Ade till	all_nine_deeplabv3plus_191c_2/training/20220625_094659					
FlatMultiDataset-3	DeepLabv3+ (rate 1, 6, 12, 18), crop size 513, + MG(1, 2, 4) + pretrained +OS16 and final inference on OS8 + cityscape coarse:No+ EpochRunner+ batch16+ backboneLR 0.1 + class weights + ohem	/netscratch/gautam/semseg/exp_results/flat_all_nine_deeplabv3plus_191c/training/20220627_205504		Todo on os8			<ul style="list-style-type: none"> On initial analysis Not much improvement!!! But , Does OS8 evaluation have impact on mIoU compared to training?? If yes, can be used to train hierarchical network, as OS16 is fast training !!
FlatMultiDataset-4	DeepLabv3+ (rate 1, 12, 24, 36)*, crop size 513, + MG(1, 2, 4) + pretrained +OS8 and final inference on OS8 + cityscape coarse:No+ EpochRunner+ batch32+ backbone LR x0.01 + class weights + ohem	semseg/exp_results/flat_all_nine_deeplabv3plus_os8_191c/training/20220628_134408		Todo			<ul style="list-style-type: none"> Would have been better to use scratch backbone !! On initial epoch comparison with flat_189c network With same reason as above, all9 dataset should be used to train at least 80 epochs
FlatMultiDataset-5	Like FMD1 with class weights only, remove MG,pretrained from FMD1, CSE loss, LR 0.001, poly, ohem, crop 512	semseg/exp_results/FMD5	B4, G8, N1				
FlatMultiDataset-6	Todo: With Hierarchical loss						
	Recalculate class weight w/o ignore class !!! Or focal loss						
	Pretrained resent: https://assets-1257038460.cos.ap-beijing.myqcloud.com/resnet101_v1d.pth with LR : 0.007 for all minlr=5e-5 or LR 0.01 also for 80k, pretrained weights are for resent v1d, change resnetv1c to resnetv1d						
	Instead of using CE , use focal loss!!						
HierarchicalMDMo del-1	<ul style="list-style-type: none"> Data CVIWAWS W/O Data balance Except L1, every head is also trained for ignore class <ul style="list-style-type: none"> Training <ul style="list-style-type: none"> 1. Batch A100 N3,G12,B1 till 6 epochs Load From 6 to20 		N2,G12,B1 N2,G16,B2				
HierarchicalCity-1	80K , 512x512, w/ ohem, w/o class weights, OS8, rate(1, 12, 24, 36), No MG, No pertained,	exp_results/h_deeplab_city_80K_191c/training/20220626_100748	N2,G8,B1	Best: 72K iter, 58.7 mIoU	FP16 vs normal training	Apart from level 1 head, every other head has no ignore index: which resulted as an prediction of index 0.. • Ignore index	
HierarchicalCity-2	80K , 512x512, w/ ohem w/ fp16 w/ pretrained backbone, No class weights, OS8, rate(1, 12, 24, 36) No MG,	/netscratch/gautam/semseg/exp_results/h_deeplab_city_80K_191c_fp16/training/20220626_193441/	N1,G4,B2	Best: 80K, 59.13 mIoU			
HierarchicalCity-3	V1: crop 512x512, 80K, ignore rest in all heads, loss weights 1:0.1 and 0.4:0.04, OS8, rate(1, 12, 24, 36) , w/ pertained backbone, but no separate LR for backbone, meletisdoublemann hierarchical loss, ignore=0 in all heads LR 0.001		G8,B2			Ration of weight is low	
HierarchicalCity-4							
HierarchicalCity-5	With L1 mask						
HierarchicalVistaA de-1	Todo run experiment from Hcity best model on SmallMixData from all9 ??						

Class Hierarchy

Vehicles	Small vehicles	Car	Pickup truck	
		Van		
		ego_vehicles		
	Large Vehicles	Truck	Train	
		Bus		
	two_wheelers	Motorcycle	Bicycle	
	other_vehicels	Caravan	trailer	Boat
		wheeled_slow	other_vehicles	Plane
Flat	normal_road	road	parking	rail_track
		sidewalk	curb	Pedestrian area
		Dirt track	runway	Crosswalk plain
		Bikelane	Service lane	Path
		Curb cut		
	road_marking	General marking	Zebra marking	manhole
		catch+basin	Pothole	all_road_marking
Construction	building_infra	Building	Grandstand	Stairs
		house	step_stair	stage
		stairway	Skyscraper	Column
		Wall	Bridge	tunnel
		fence	guard_rail	
	other_infra	Pier-dock	Canopy	Fountain
		Bannister	Barrier	awning-sunshade
		Hovel-hut		
Traffic_objects	pole_all	Pole	Utility pole	tower
	Sign	traffic_sign	Billboard	banner
		traffic_sign_frame	traffic_sign back	trade-brand
		picture	Poster	
	glowing_obj	street_light	Traffic light	Light-source

	Other_obj	trashcan	phone_booth	cctv_camera
		junction_box	fyre_hydrant	mailbox
		bikerack		
Nature Objects				
	sky_Vegetation	Tree	palm_tree	Sky
		plant	Vegetation	
	ground	terrain	Mountain	earth-ground
		soil-ground	hill	Field
		Rock		
	other_entities	Water	Snow	sand
		river	Lake	sea
		Water-fall	Swimming-pool	
Vulnerable_road_user VRU	Animal	ground_animal	Bird	
	Human	Motorcyclist	Bicyclist	other_rider
		Person		
Indoor_obj	furniture	Bed	cabinet	door
		Table	Chair	sofa
		Shelf	Armchair	desk
		drawers	Counter	Ward robe
		Coffee table	Ottoman	stool
		other_furniture	Book-case	box
		Swivel-chair	cradle	Case-showcase
		Seat	Bench	Window
	Bedroom obj	Cushion	Pillow	lamp
		rug	Mirror	curtain
		Flower	Blind	
		Blanket-cover	Apparel	Fireplace
				Ceiling
		Floor	Sconce	
	Bathroom obj	Bathtub	toilet	Towel
		Shower	shower_curtain	
	other_obj	Escalator	Flag	Clock

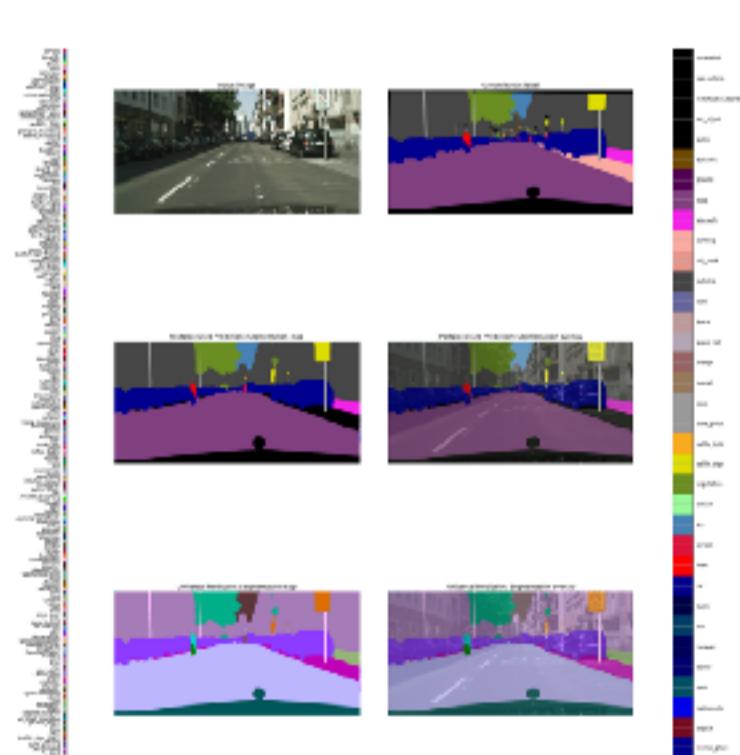
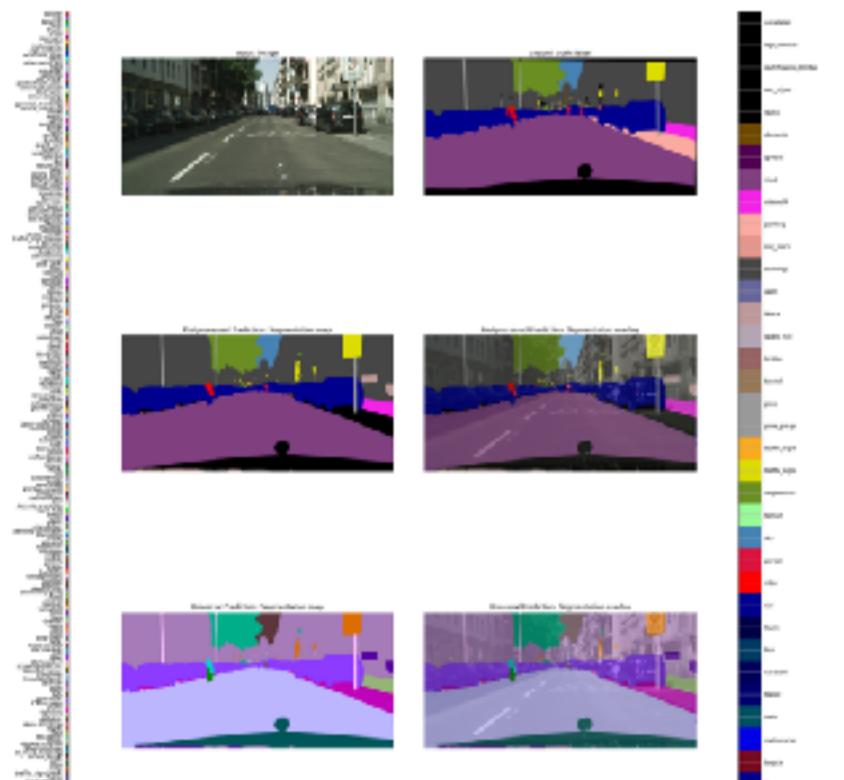
		Radiator	Glass-drinking	plate
		Fan	tray	Vase
		pot	Bag	Tent
		Basket	barrel	Playing-toy
		Conveyerbelt	Chandelier	Book
		pool-billiard	ball	Tank
		Sculpture	base	
	Electronic	Monitor	CRT-screen	screen-projector
		Television	Arcade machine	computer
		Screen		
	Kitchen_obj	hood_exhaust	Dishwasher	
		microwave	Food	Oven
		Washer	Buffet	Bottle
		Bar	Kitchen-island	Stove
		counter-top	Refrigerator	Sink

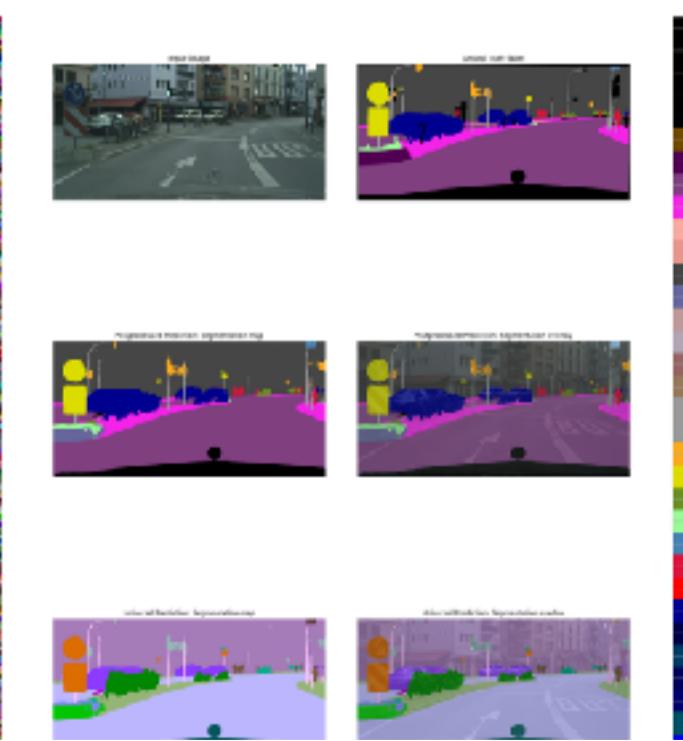
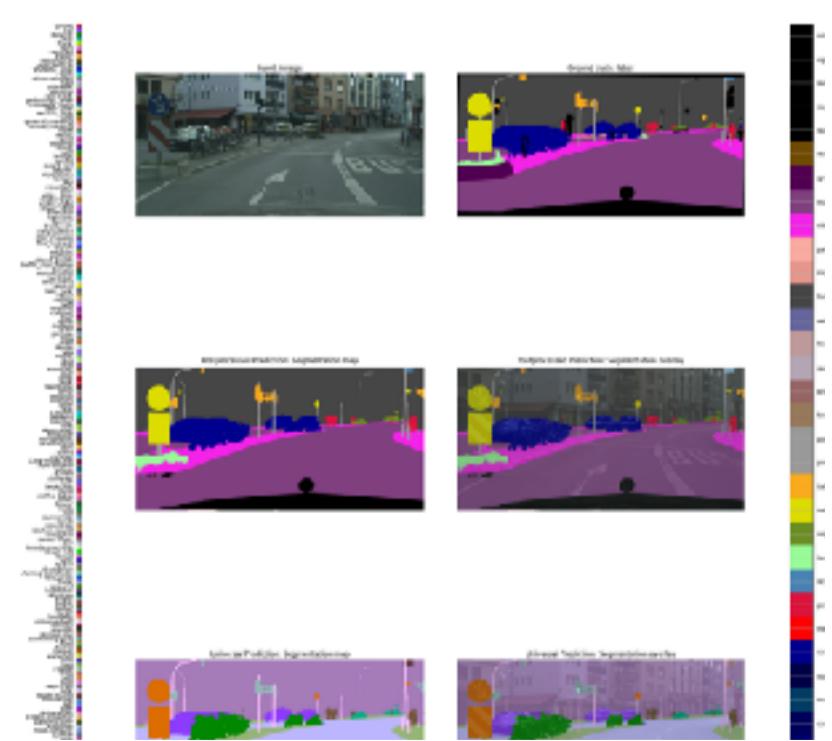
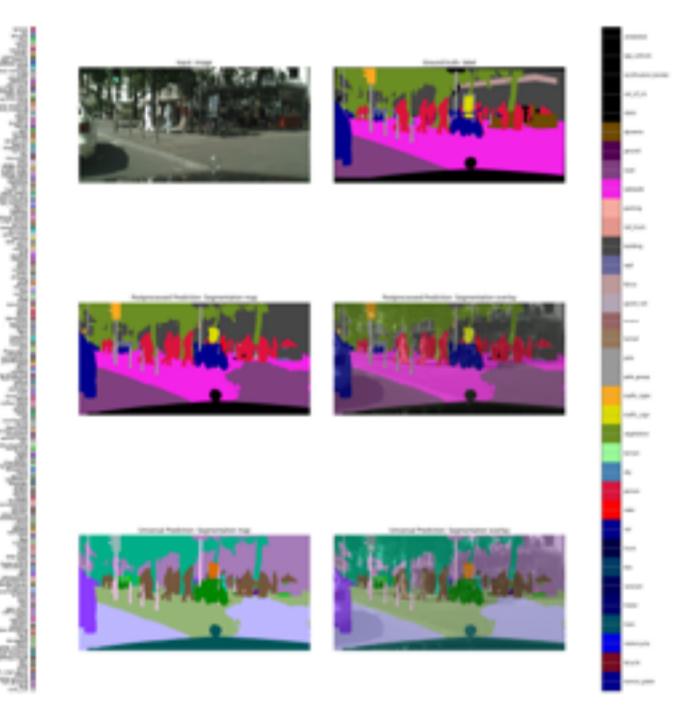
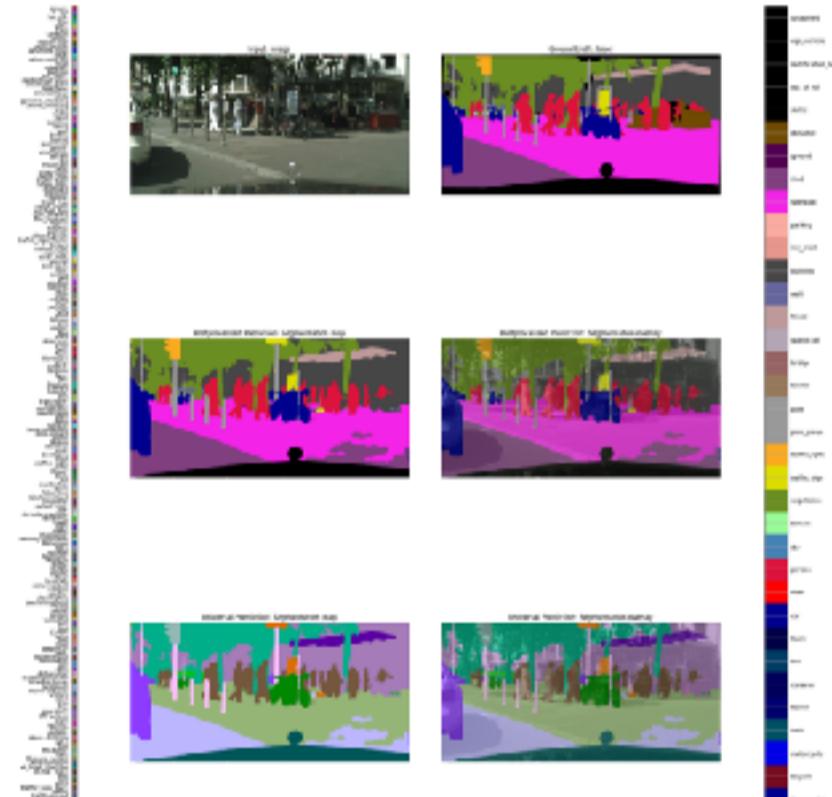
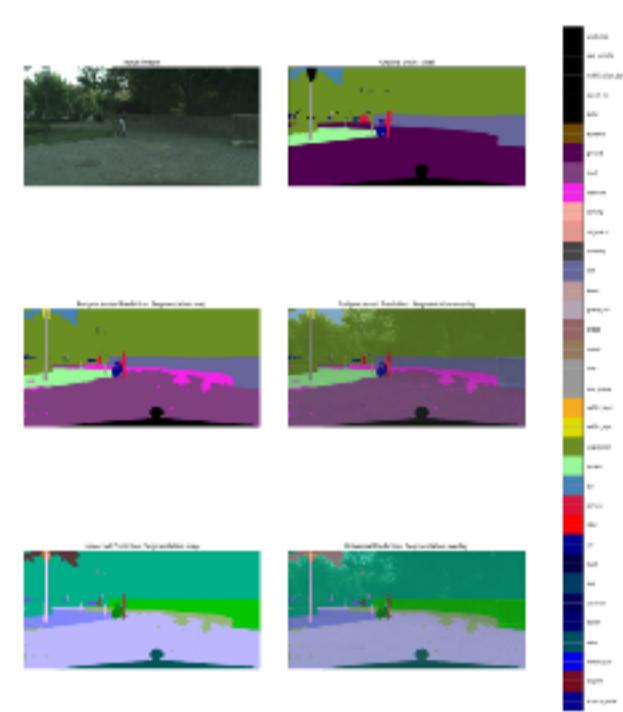
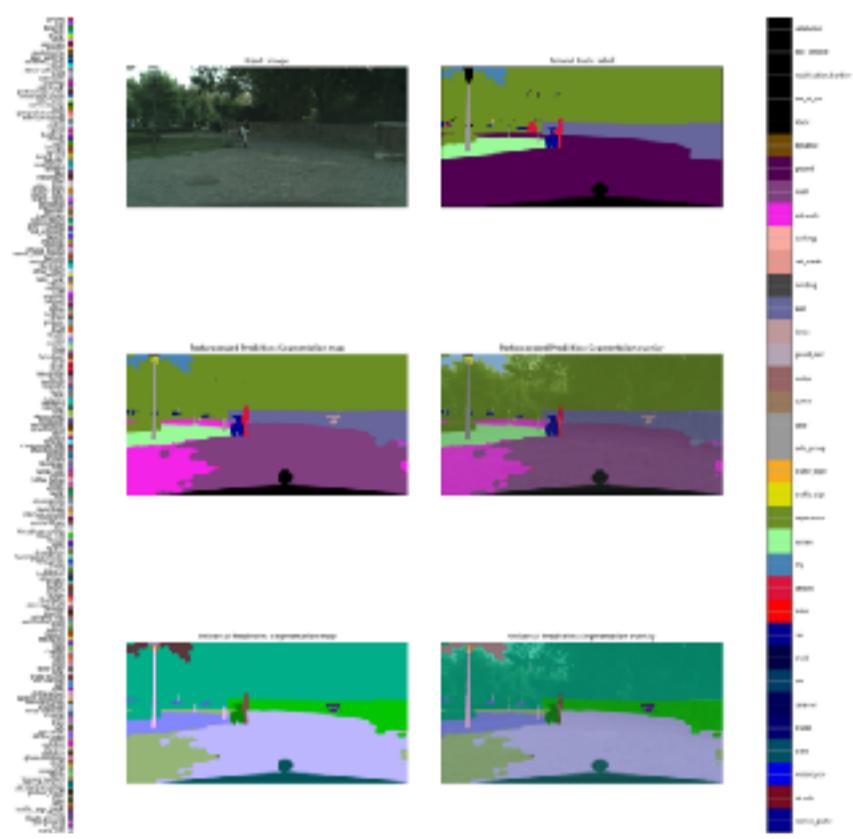
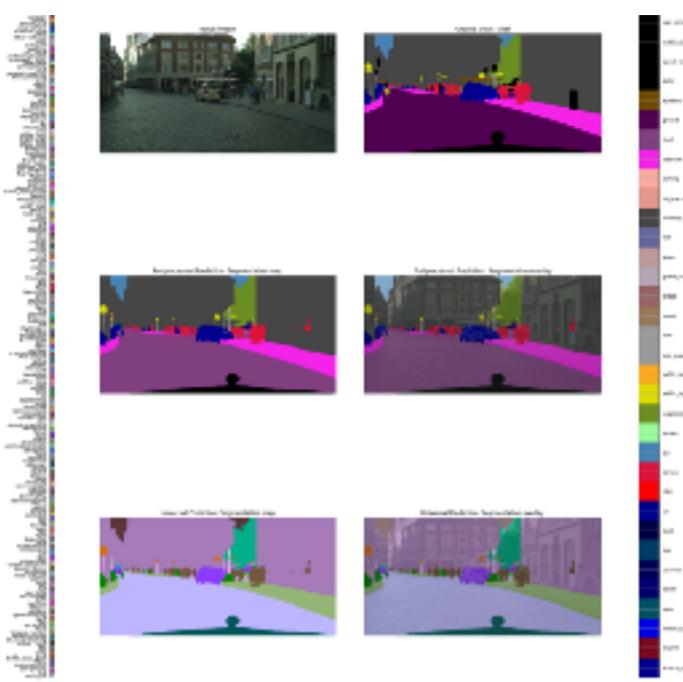
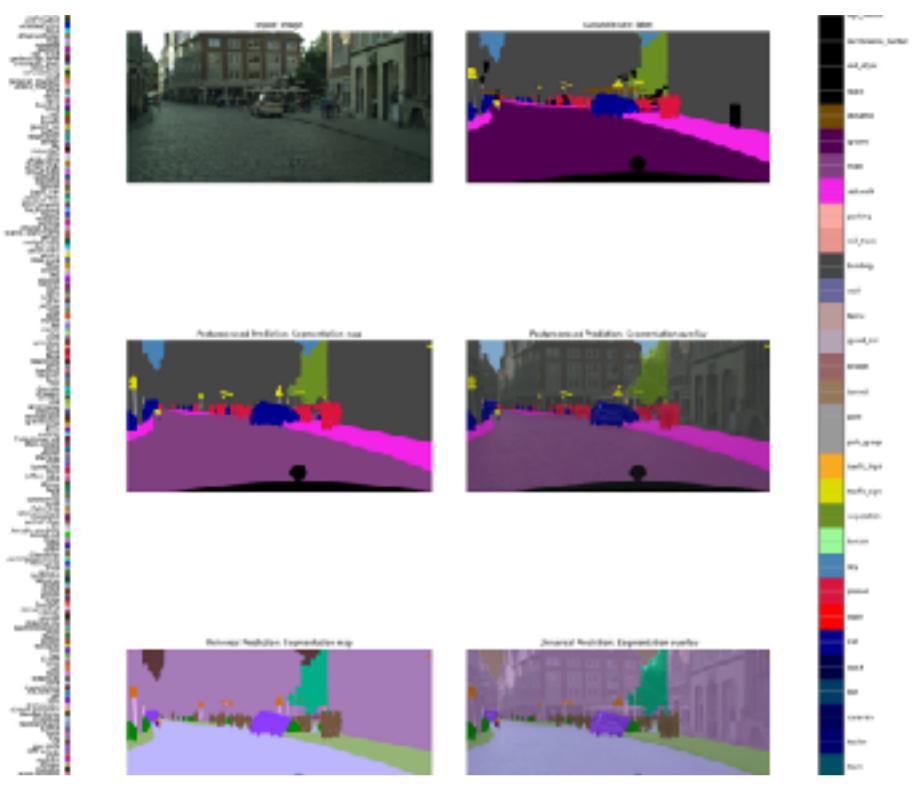
Evaluated on: road, sidewalk, building, wall, fence, pole, traffic_light, traffic_sign, vegetation, terrain, sky, person, rider, car, truck, bus, train, motorcycle, bicycle

Table 1

	Baseline: Individual	Baseline: Universal Dataset
Result location	/Users/pawneeshkumar/ws/thesis_exp_results/baseline0_city_80K_iter	/Users/pawneeshkumar/ws/thesis_exp_results/baseline_flat_universal_all_data
Evaluation classes	Cityscape eval classes	Cityscape eval classes
Evaluation dataset	Cityscapes	Cityscapes validation data
Training dataset	Cityscapes training data	All9 + All6
Evaluation dataset	Cityscapes validation data	Cityscapes validation data
Num classes		
Data Imbalance	OHEM Sampler!	OHEM Sampler
Model	Universal model with 189 classes	Universal model with 189 classes
Ignored classes	0	0
Optimizer	SGD	SGD
Momentum	0.9	0.9
Weight decay	0.0004	0.0004
Learning rate policy	poly, power=0.9, min_lr=1e-4	poly, power=0.9, min_lr=1e-4
Runner	Iter based runner	Epoch based runner
Max epochs/Iters	160,000	10+50+70
Best epoch/iter	104, 000	
Samples per gpu	4	4
Number of GPUs	4	4
Initializer	Normal distribution	Normal
Crop Size	512x1024	512x512
Multiscale	Yes	Yes
Pipeline		
Additional Details		
aAcc	0.9612999999999999	0.9592
mIoU	0.7399	0.7263
mAcc	0.8504999999999999	0.8454999999999999
IoU.unlabeled	0.0	0.0
IoU.ego_vehicle	nan	nan
IoU.rectification_border	nan	nan
IoU.out_of_roi	nan	nan
IoU.static	nan	nan
IoU.dynamic	nan	nan
IoU.ground	nan	nan
IoU.road	0.9833000183105469	0.9801000213623047
IoU.sidewalk	0.8629000091552734	0.8494999694824219
IoU.parking	nan	nan
IoU.rail_track	nan	nan
IoU.building	0.925199966430664	0.9258999633789062
IoU.wall	0.5147000122070312	0.6134999847412109
IoU.fence	0.6018999862670898	0.6304999923706055
IoU.guard_rail	nan	nan
IoU.bridge	nan	nan
IoU.tunnel	nan	nan
IoU.pole	0.6723999786376953	0.6529000091552735
IoU.pole_group	nan	nan
IoU.traffic_light	0.7133000183105469	0.6644000244140625
IoU.traffic_sign	0.7897000122070312	0.7531999969482421
IoU.vegetation	0.9262999725341797	0.9258999633789062
IoU.terrain	0.6451000213623047	0.6340999984741211
IoU.sky	0.947699966430664	0.9523000335693359
IoU.person	0.8237000274658203	0.795199966430664
IoU.rider	0.6268999862670899	0.542299954223633

	Baseline: Individual	Baseline: Universal Dataset
IoU.car	0.9527999877929687	0.9505999755859375
IoU.truck	0.7241999816894531	0.793499984741211
IoU.bus	0.8866000366210938	0.8469000244140625
IoU.caravan	nan	nan
IoU.trailer	nan	nan
IoU.train	0.7873999786376953	0.7156999969482422
IoU.motorcycle	0.6405999755859375	0.5729000091552734
IoU.bicycle	0.7744000244140625	0.7268000030517578
IoU.licence_plate	nan	nan
Acc.unlabeled	nan	nan
Acc.ego_vehicle	nan	nan
Acc.rectification_border	nan	nan
Acc.out_of_roi	nan	nan
Acc.static	nan	nan
Acc.dynamic	nan	nan
Acc.ground	nan	nan
Acc.road	0.9902999877929688	0.9870999908447265
Acc.sidewalk	0.9252999877929687	0.9163999938964844
Acc.parking	nan	nan
Acc.rail_track	nan	nan
Acc.building	0.9647000122070313	0.9651000213623047
Acc.wall	0.562400016784668	0.7066000366210937
Acc.fence	0.7033000183105469	0.7333999633789062
Acc.guard_rail	nan	nan
Acc.bridge	nan	nan
Acc.tunnel	nan	nan
Acc.pole	0.7927999877929688	0.7645999908447265
Acc.pole_group	nan	nan
Acc.traffic_light	0.8326000213623047	0.8090000152587891
Acc.traffic_sign	0.8698000335693359	0.8154000091552734
Acc.vegetation	0.9683000183105469	0.9668000030517578
Acc.terrain	0.7469000244140624	0.7205999755859375
Acc.sky	0.9805999755859375	0.9806999969482422
Acc.person	0.917099908447266	0.8906999969482422
Acc.rider	0.7416000366210938	0.6477999877929688
Acc.car	0.9783999633789062	0.9794999694824219
Acc.truck	0.7804000091552734	0.8933999633789063
Acc.bus	0.9305000305175781	0.8815000152587891
Acc.caravan	nan	nan
Acc.trailer	nan	nan
Acc.train	0.8316000366210937	0.842099908447265
Acc.motorcycle	0.7563999938964844	0.688499984741211
Acc.bicycle	0.8872000122070313	0.8743000030517578
Acc.licence_plate	nan	nan
		0.6315046879759757





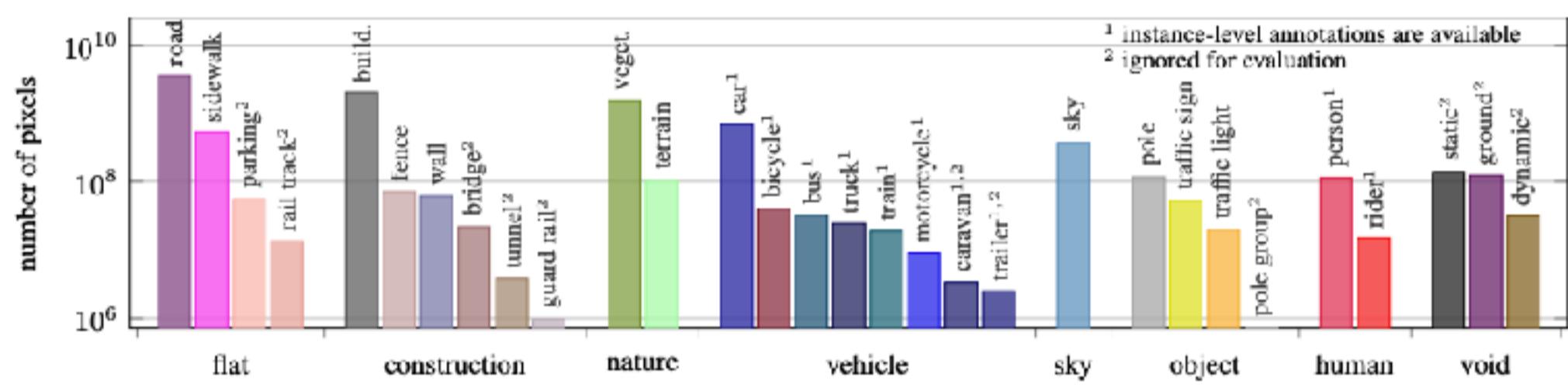
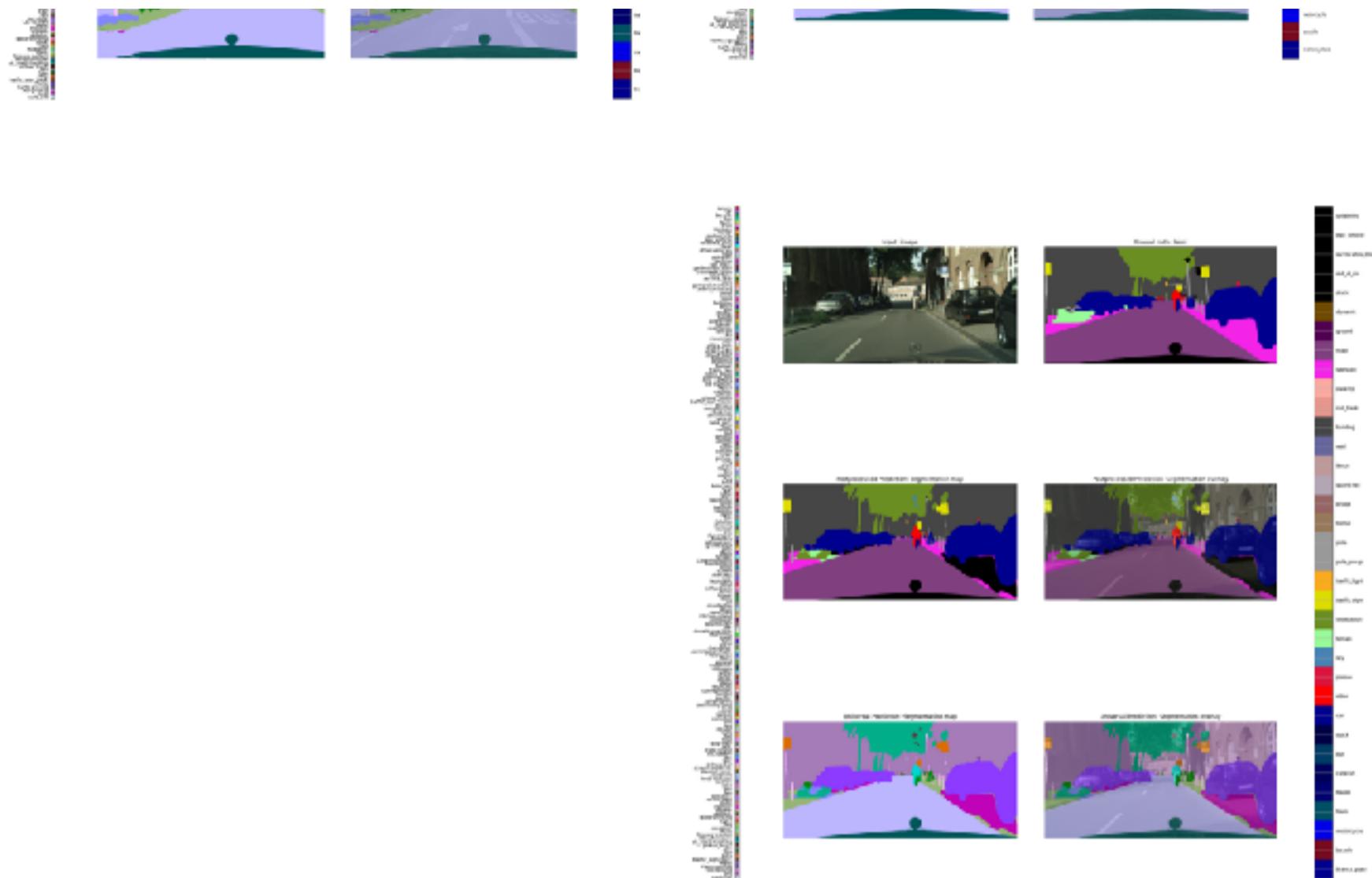


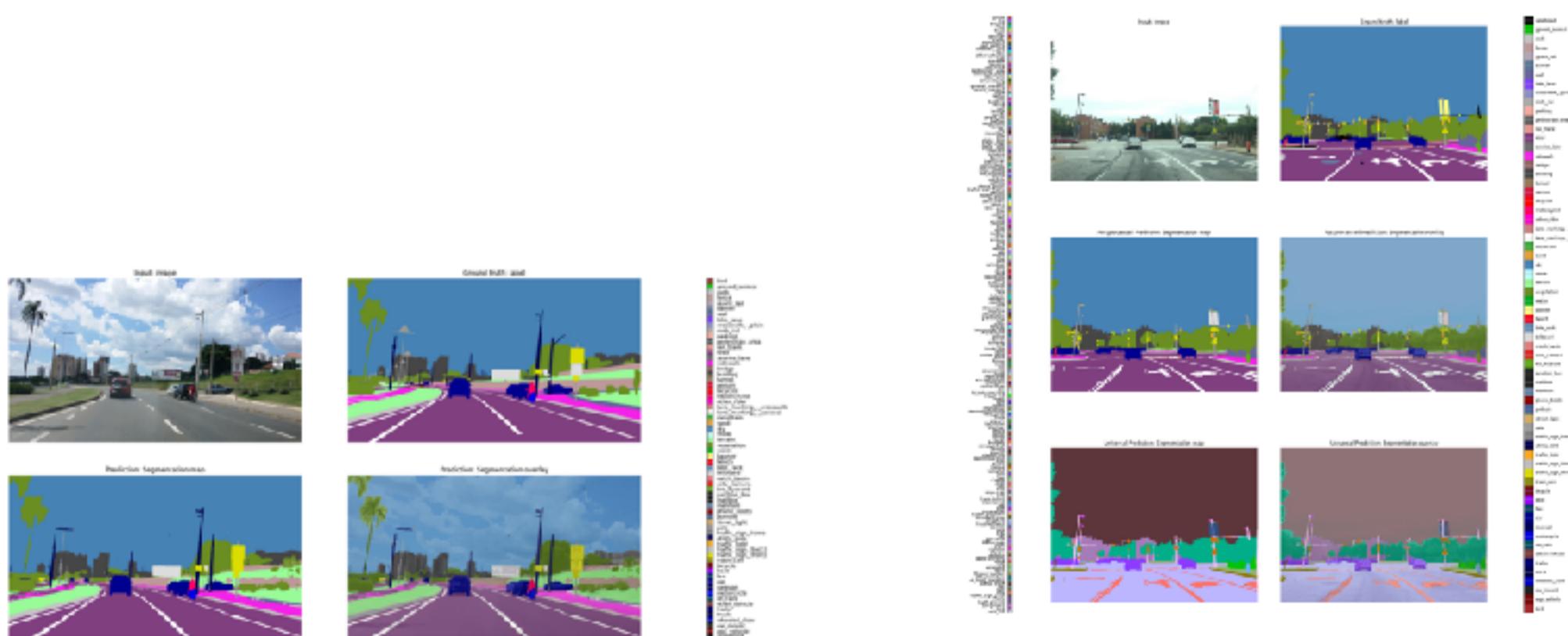
Figure 1. Number of finely annotated pixels (y-axis) per class and their associated categories (x-axis).

Table 1

	Baseline: Individual	Baseline: Universal
Evaluation classes	Eval classes	Eval classes
Evaluation dataset	Vistas	Vistas full val data
Training dataset	Vistas	All9 + all6
Num classes		189
Dataimbalance		OHEM Sampler
Model	Flat DeepLab universal	Flat DeepLab universal with 512
Ignored classes	0	0
Optimizer		SGD
Momentum		
Weight decay		
Learning rate policy		
Runner		
Max epochs/Iters		
Best epoch/iter		
Samples per gpu		
Number of GPUs		
Initializer		
Crop Size		
Multiscale		
Pipeline		
Additional Details		
aAcc	0.898199999999999	0.8998
mIoU	0.382	0.3670000000000005
mAcc	0.4788	0.4501
IoU.bird	nan	0.00400000059604645
IoU.ground_animal	0.0	0.0
IoU.curb	0.5558000183105469	0.5452999877929687
IoU.fence	0.5622000122070312	0.5734999847412109
IoU.guard_rail	0.6272999954223633	0.6213000106811524
IoU.barrier	0.5265000152587891	0.5359000015258789
IoU.wall	0.45490001678466796	0.49790000915527344
IoU.bike_lane	0.266200008392334	0.22690000534057617
IoU.crosswalk_-_plain	0.24459999084472656	0.15539999961853027
IoU.curb_cut	0.0	0.0
IoU.parking	0.13180000305175782	0.1409000015258789
IoU.pedestrian_area	0.27360000610351565	0.29649999618530276
IoU.rail_track	0.479900016784668	0.46169998168945314
IoU.road	0.8669000244140626	0.8611000061035157
IoU.service_lane	0.42450000762939455	0.43139999389648437
IoU.sidewalk	0.6193999862670898	0.6288999938964843
IoU.bridge	0.701500015258789	0.7266999816894532
IoU.building	0.8477999877929687	0.8619999694824219
IoU.tunnel	0.15350000381469728	0.125
IoU.person	0.6462000274658203	0.6772000122070313
IoU.bicyclist	0.4129999923706055	0.37290000915527344
IoU.motorcyclist	0.39479999542236327	0.45490001678466796
IoU.other_rider	0.0	0.0
IoU.lane_marking_-_crosswalk	0.6863999938964844	0.64
IoU.lane_marking_-_general	0.601500015258789	0.5533000183105469
IoU.mountain	0.4791999816894531	0.4620000076293945
IoU.sand	0.0	0.0
IoU.sky	0.975	0.9786000061035156

	Baseline: Individual	Baseline: Universal
IoU.snow	0.793499984741211	0.778499984741211
IoU.terrain	0.602599983215332	0.6270000076293946
IoU.vegetation	0.8911000061035156	0.8916000366210938
IoU.water	0.6895999908447266	0.7911000061035156
IoU.banner	0.0336999885559082	0.0
IoU.bench	0.21440000534057618	0.12319999694824219
IoU.bike_rack	0.0	0.0
IoU.billboard	0.42630001068115236	0.4356999969482422
IoU.catch_basin	0.295	0.0
IoU.cctv_camera	0.0	0.0
IoU.fire_hydrant	0.0	0.24540000915527344
IoU.junction_box	0.33049999237060546	0.03759999904632565
IoU.mailbox	0.0	0.0
IoU.manhole	0.4175	0.0
IoU.phone_booth	0.0	0.0
IoU.pothole	0.0	0.0
IoU.street_light	0.3995000076293945	0.37
IoU.pole	0.4318000030517578	0.40880001068115235
IoU.traffic_sign_frame	0.4929999923706055	0.44220001220703126
IoU.utility_pole	0.46189998626708983	0.43779998779296875
IoU.traffic_light	0.5927000045776367	0.6104999923706055
IoU.traffic_sign_(back)	0.0	0.2625
IoU.traffic_sign_(front)	0.6748000335693359	0.6845999908447266
IoU.trash_can	0.28420000076293944	0.2834000015258789
IoU.bicycle	0.47639999389648435	0.48650001525878905
IoU.boat	0.34509998321533203	0.0
IoU.bus	0.7319000244140625	0.7843000030517578
IoU.car	0.8876999664306641	0.8915000152587891
IoU.caravan	0.0	0.0
IoU.motorcycle	0.4988000106811523	0.5556000137329101
IoU.on_rails	0.20959999084472655	0.44479999542236326
IoU.other_vehicle	0.1256999969482422	0.17020000457763673
IoU.trailer	0.0	0.0
IoU.truck	0.6730000305175782	0.705999984741211
IoU.wheeled_slow	0.0	0.0
IoU.car_mount	0.0	0.0
IoU.ego_vehicle	0.9191000366210937	0.9198999786376953
IoU.unlabeled	0.0	0.0
Acc.bird	nan	0.024800000190734865
Acc.ground_animal	0.0	0.0
Acc.curb	0.7855000305175781	0.7752999877929687
Acc.fence	0.7187000274658203	0.7341999816894531
Acc.guard_rail	0.7536000061035156	0.7577999877929688
Acc.barrier	0.6929000091552734	0.696500015258789
Acc.wall	0.615999984741211	0.6668000030517578
Acc.bike_lane	0.3078000068664551	0.25729999542236326
Acc.crosswalk_-plain	0.3079999923706055	0.19209999084472656
Acc.curb_cut	0.0	0.0
Acc.parking	0.15420000076293947	0.16860000610351564
Acc.pedestrian_area	0.29690000534057615	0.3096999931335449
Acc.rail_track	0.5752999877929688	0.645
Acc.road	0.9473999786376953	0.9581999969482422
Acc.service_lane	0.5272999954223633	0.542400016784668
Acc.sidewalk	0.8526000213623047	0.8516999816894532
Acc.bridge	0.8391999816894531	0.8640000152587891
Acc.building	0.9443000030517578	0.9458999633789062
Acc.tunnel	0.16260000228881835	0.12850000381469726
Acc.person	0.8501000213623047	0.8598999786376953
Acc.bicyclist	0.5893999862670899	0.4533000183105469
Acc.motorcyclist	0.5795999908447266	0.7070999908447265
Acc.other_rider	0.0	0.0
Acc.lane_marking_-crosswalk	0.8119000244140625	0.7334999847412109
Acc.lane_marking_-general	0.7336000061035156	0.6498000335693359

	Baseline: Individual	Baseline: Universal
Acc.mountain	0.5556999969482422	0.5618999862670898
Acc.sand	0.0	0.0
Acc.sky	0.986500015258789	0.9908000183105469
Acc.snow	0.9291000366210938	0.8781999969482421
Acc.terrain	0.840999984741211	0.8333999633789062
Acc.vegetation	0.9513999938964843	0.9530999755859375
Acc.water	0.7855000305175781	0.8381999969482422
Acc.banner	0.0352999997138977	0.0
Acc.bench	0.389099984741211	0.13350000381469726
Acc.bike_rack	0.0	0.0
Acc.billboard	0.6038000106811523	0.6193000030517578
Acc.catch_basin	0.3331999969482422	0.0
Acc.cctv_camera	0.0	0.0
Acc.fire_hydrant	0.0	0.26790000915527346
Acc.junction_box	0.4570000076293945	0.03839999914169311
Acc.mailbox	0.0	0.0
Acc.manhole	0.5525	0.0
Acc.phone_booth	0.0	0.0
Acc.pothole	0.0	0.0
Acc.street_light	0.48	0.4375
Acc.pole	0.634099984741211	0.6220000076293946
Acc.traffic_sign_frame	0.6131000137329101	0.5197000122070312
Acc.utility_pole	0.6333000183105468	0.5877000045776367
Acc.traffic_light	0.7841999816894532	0.7723999786376953
Acc.traffic_sign_(back)	0.0	0.3225
Acc.traffic_sign_(front)	0.826500015258789	0.8065000152587891
Acc.trash_can	0.64	0.6868000030517578
Acc.bicycle	0.7666999816894531	0.7686000061035156
Acc.boat	0.462599983215332	0.0
Acc.bus	0.8619000244140625	0.8868000030517578
Acc.car	0.9641000366210938	0.9668000030517578
Acc.caravan	0.0	0.0
Acc.motorcycle	0.8027999877929688	0.8205000305175781
Acc.on_rails	0.22690000534057617	0.45430000305175783
Acc.other_vehicle	0.20940000534057618	0.21629999160766603
Acc.trailer	0.0	0.0
Acc.truck	0.7976000213623047	0.8419999694824218
Acc.wheeled_slow	0.0	0.0
Acc.car_mount	0.0	0.0
Acc.ego_vehicle	0.9551000213623047	0.9577999877929687
Acc.unlabeled	0.0	0.0
average_inference_duration	1.61868341935199	1.4459372555680166
num_images	2000	2000





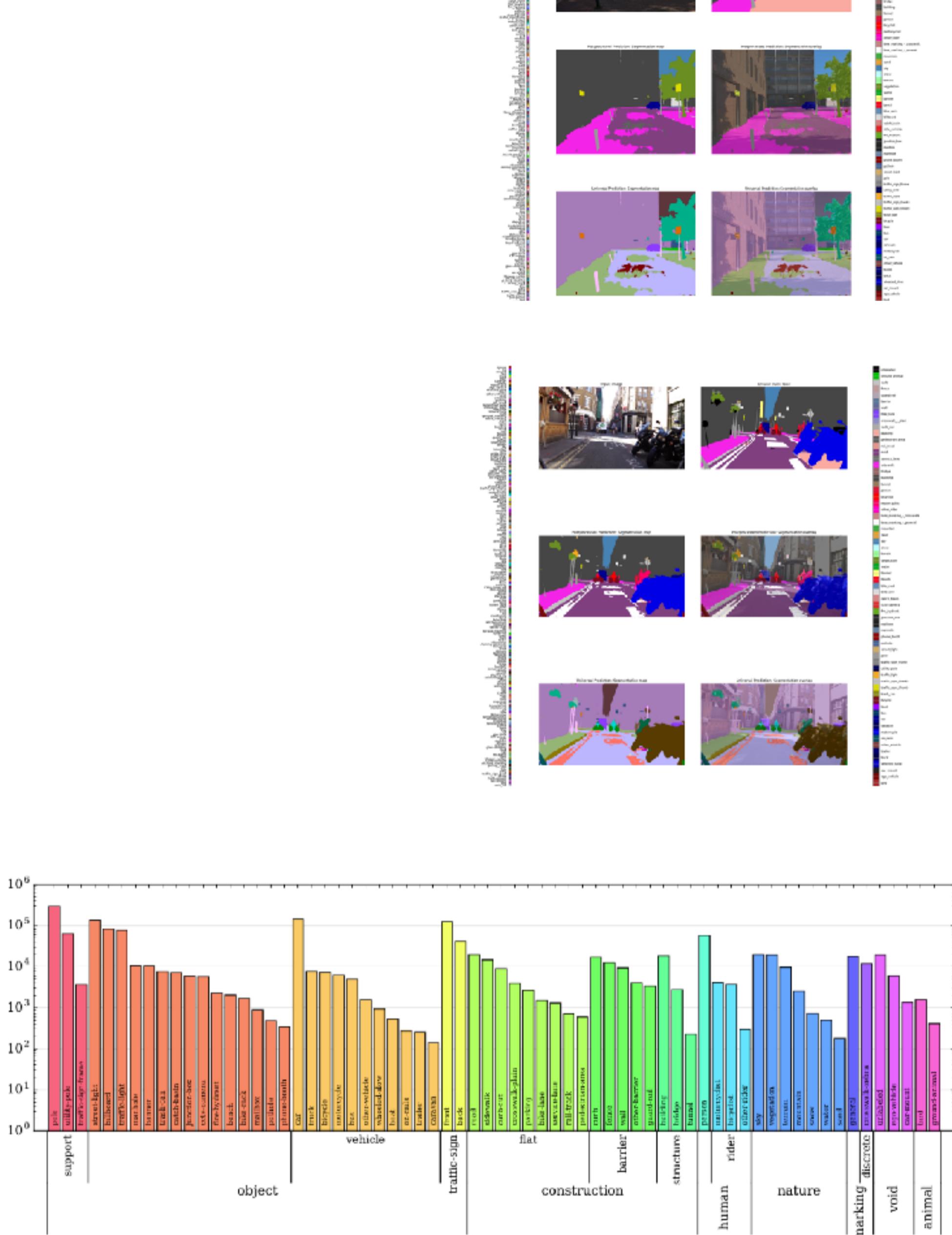


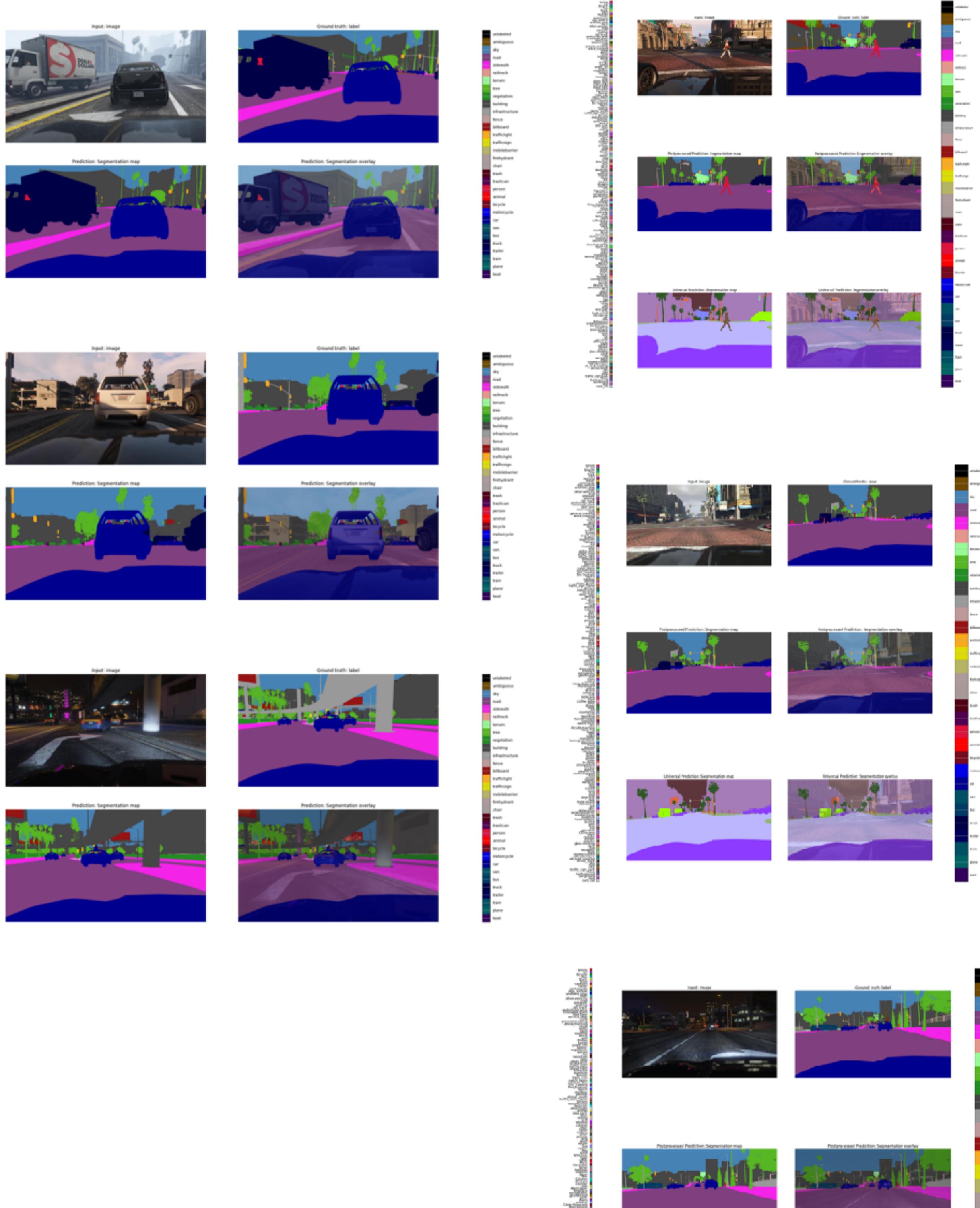
Figure 1. Illustration of number of labeled instances per category and corresponding macro- and root-level class.

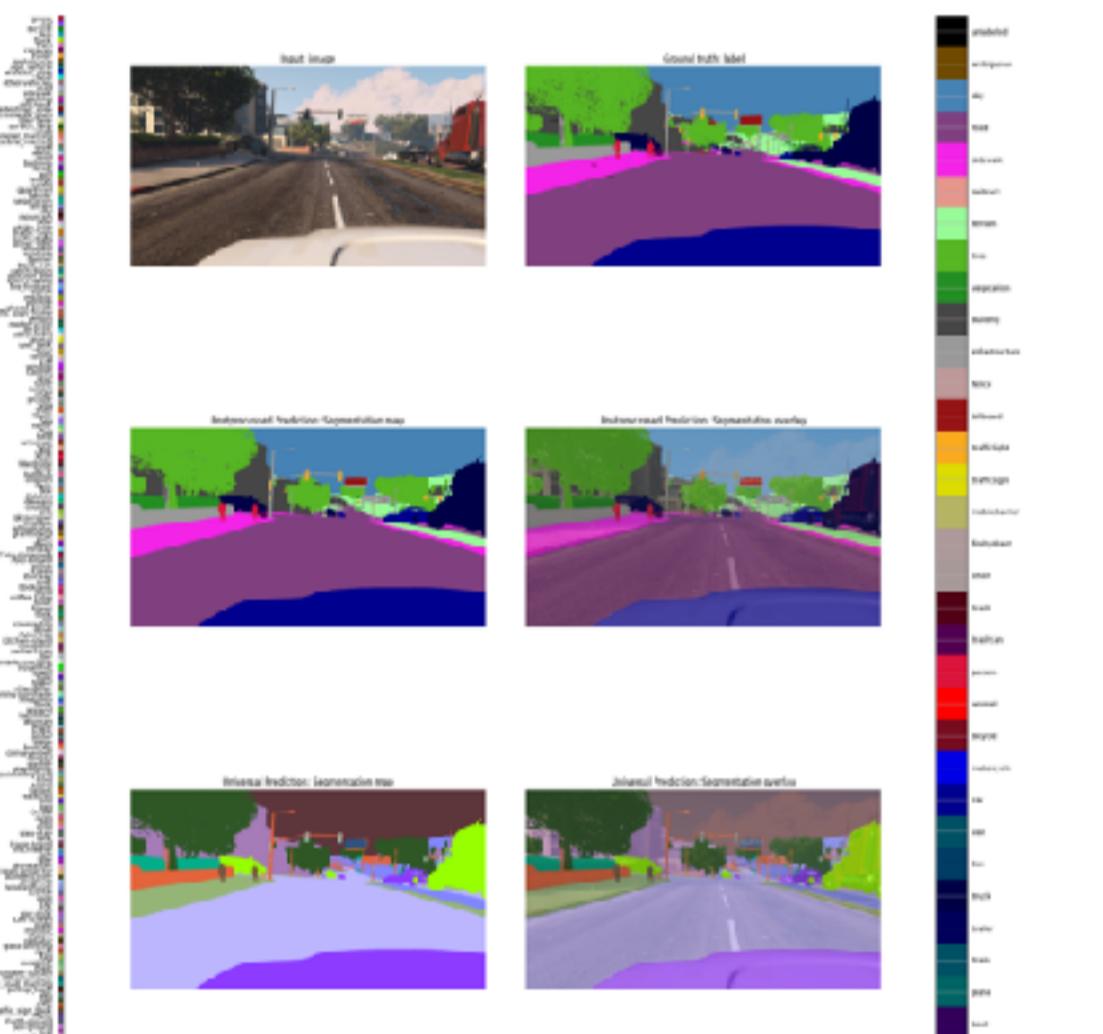
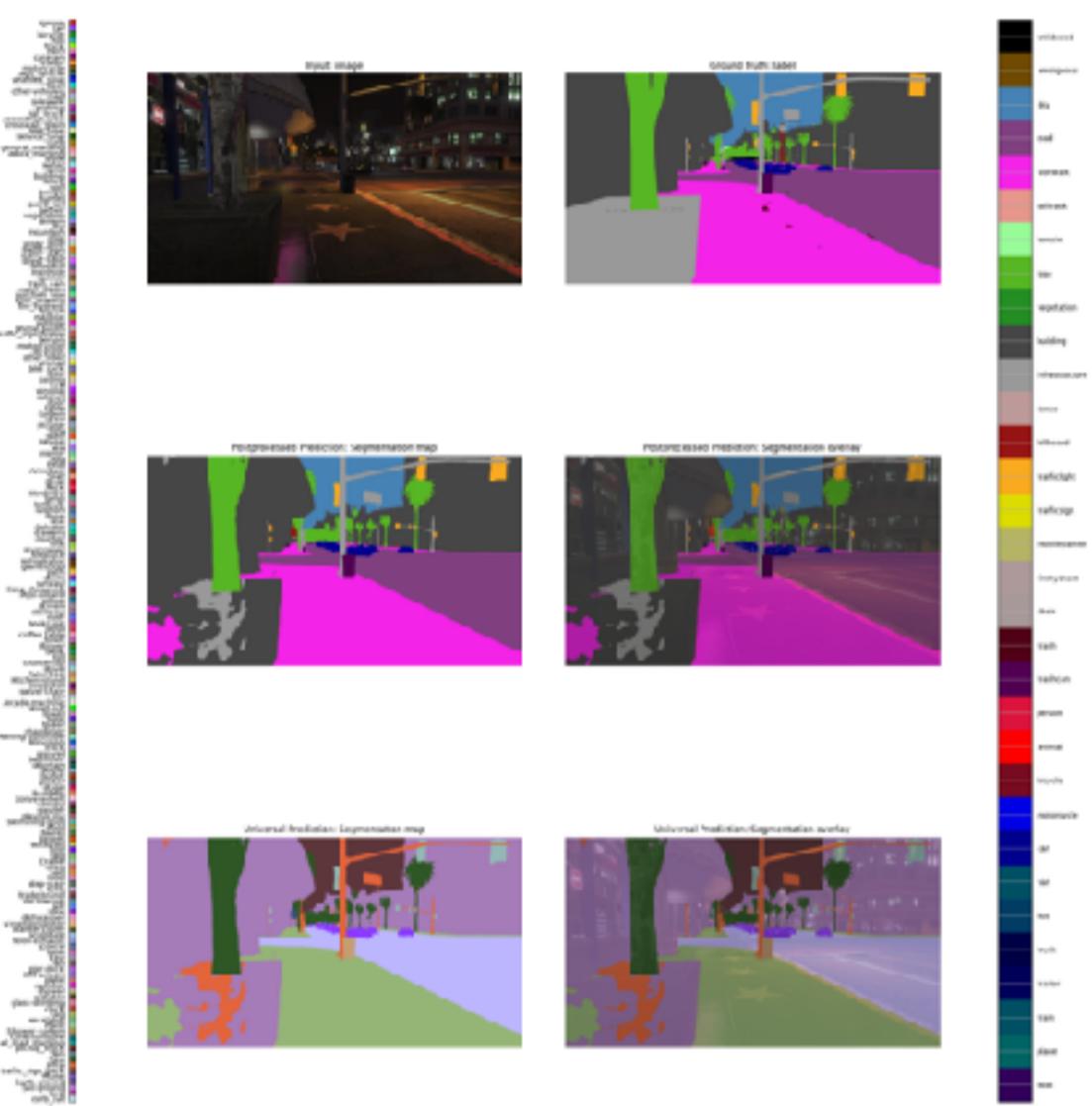
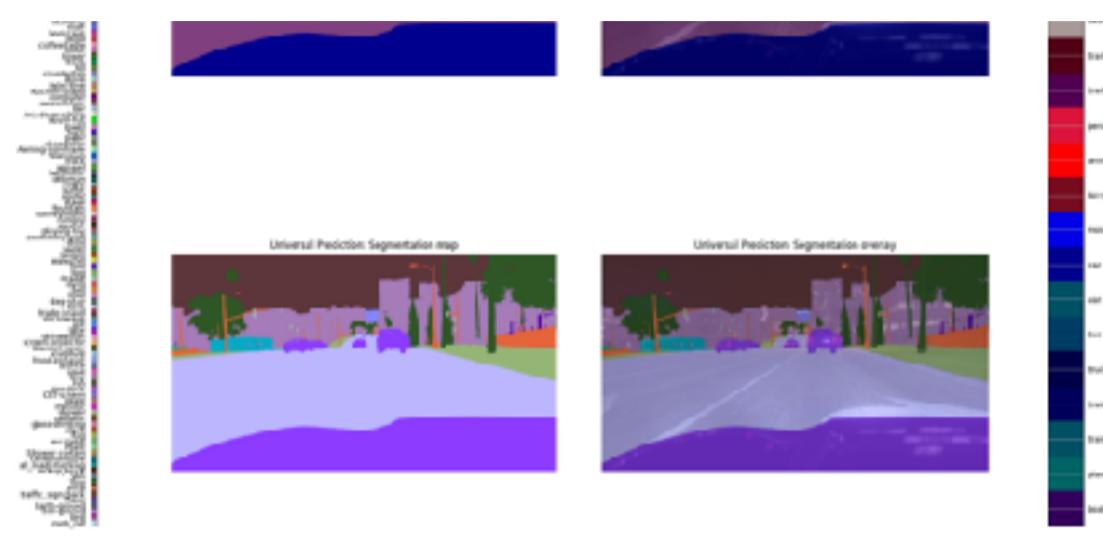
Table 1

	Baseline: 0	
Evaluated on		
Evaluation dataset		
Training dataset	Universal	
Evaluation dataset	Full validation dataset	
Num classes	All	Only evaluation classes
Model		
Ignored classes		
Optimizer		
Momentum		
Weight decay		
Learning rate policy		
Runner		
Max epochs/Iters		
Best epoch/iter		
Samples per gpu		
Number of GPUs		
Initializer		
Crop Size		
Multiscale		
Pipeline		
Additional Details		
aAcc	0.8856999999999999	0.9467
mIoU	0.4967000000000003	0.6557999999999999
mAcc	0.5893999999999999	0.7551000000000001
IoU.unlabeled	nan	0.0
IoU.ambiguous	0.0	nan
IoU.sky	0.9681999969482422	965
IoU.road	0.9322000122070313	0.9656999969482422
IoU.sidewalk	0.9118000030517578	0.9038999938964843
IoU.railtrack	0.0	nan
IoU.terrain	0.680999847412109	0.6637000274658204
IoU.tree	0.8112999725341797	0.8151000213623046
IoU.vegetation	0.7237000274658203	0.6658000183105469
IoU.building	0.6563999938964844	0.8483000183105469
IoU.infrastructure	0.0	0.7091999816894531
IoU.fence	0.3081999969482422	0.3320000076293945
IoU.billboard	0.3997000122070313	0.4540999984741211
IoU.trafficlight	0.8026999664306641	0.7241999816894531
IoU.trafficsign	0.715999984741211	0.7394000244140625
IoU.mobilebarrier	0.3586000061035156	0.41689998626708985
IoU.firehydrant	0.8930000305175781	0.7848999786376953
IoU.chair	0.37099998474121093	0.34900001525878904
IoU.trash	0.0	0.0
IoU.trashcan	0.8530999755859375	0.7311000061035157
IoU.person	0.678499984741211	0.7348999786376953
IoU.animal	0.0	nan
IoU.bicycle	0.0	nan
IoU.motorcycle	0.709800033569336	0.7941999816894532
IoU.car	0.9819999694824219	0.9788999938964844
IoU.van	0.3390000152587891	0.3647999954223633
IoU.bus	0.8743000030517578	0.8733999633789062
IoU.truck	0.9312999725341797	0.9254000091552734
IoU.trailer	0.0	nan
IoU.train	0.0	nan
IoU.plane	0.0	nan
IoU.boat	nan	nan
Acc.unlabeled	nan	nan
Acc.ambiguous	0.0	nan
Acc.sky	0.9841999816894531	0.9838999938964844
Acc.road	0.9744999694824219	0.9843000030517578
Acc.sidewalk	0.9661000061035157	0.9430000305175781
Acc.railtrack	nan	nan
Acc.terrain	0.816500015258789	0.7922000122070313
Acc.tree	0.9155999755859375	0.9080999755859375
Acc.vegetation	0.8361000061035156	0.8238999938964844
Acc.building	0.9719000244140625	0.9320000335693359
Acc.infrastructure	0.0	0.8038999938964844
Acc.fence	0.37560001373291013	0.45310001373291015
Acc.billboard	0.47459999084472654	0.5272000122070313
Acc.trafficlight	0.8723999786376954	0.8116999816894531
Acc.trafficsign	0.8037999725341797	0.8302999877929688
Acc.mobilebarrier	0.3813999938964844	0.45939998626708983
Acc.firehydrant	0.9394999694824219	0.852699966430664
Acc.chair	0.40169998168945314	0.42520000457763674
Acc.trash	0.0	0.0
Acc.trashcan	0.9016999816894531	0.8119000244140625
Acc.person	0.8065000152587891	0.8544000244140625
Acc.animal	0.0	nan

Baseline: 0		
Acc.bicycle	nan	nan
Acc.motorcycle	0.8251999664306641	0.8833999633789062
Acc.car	0.9930000305175781	0.9919999694824219
Acc.van	0.3816999816894531	0.39720001220703127
Acc.bus	0.9058999633789062	0.9341999816894532
Acc.truck	0.973899938964844	0.9629000091552734
Acc.trailer	0.0	nan
Acc.train	0.0	nan
Acc.plane	0.0	nan
Acc.boat	nan	nan
average_inference_duration	0.4755861367480829	0.3436535718471948
num_images	1000	49815
Configurations		

Baseline:0 flat		
crop_size	512x512	
samples_per_gpu	4	
workers_per_gpu	8	
ignore_index	0	
num_classes	187	
Optimiser	SGD	
Learning rate	Poly: power:0.9; by_epoch	
Epoch	200	
best_epoch	149	
Training samples		
Validation sample	1000(random)	
Test sample	Partial val data: 1000(random)	





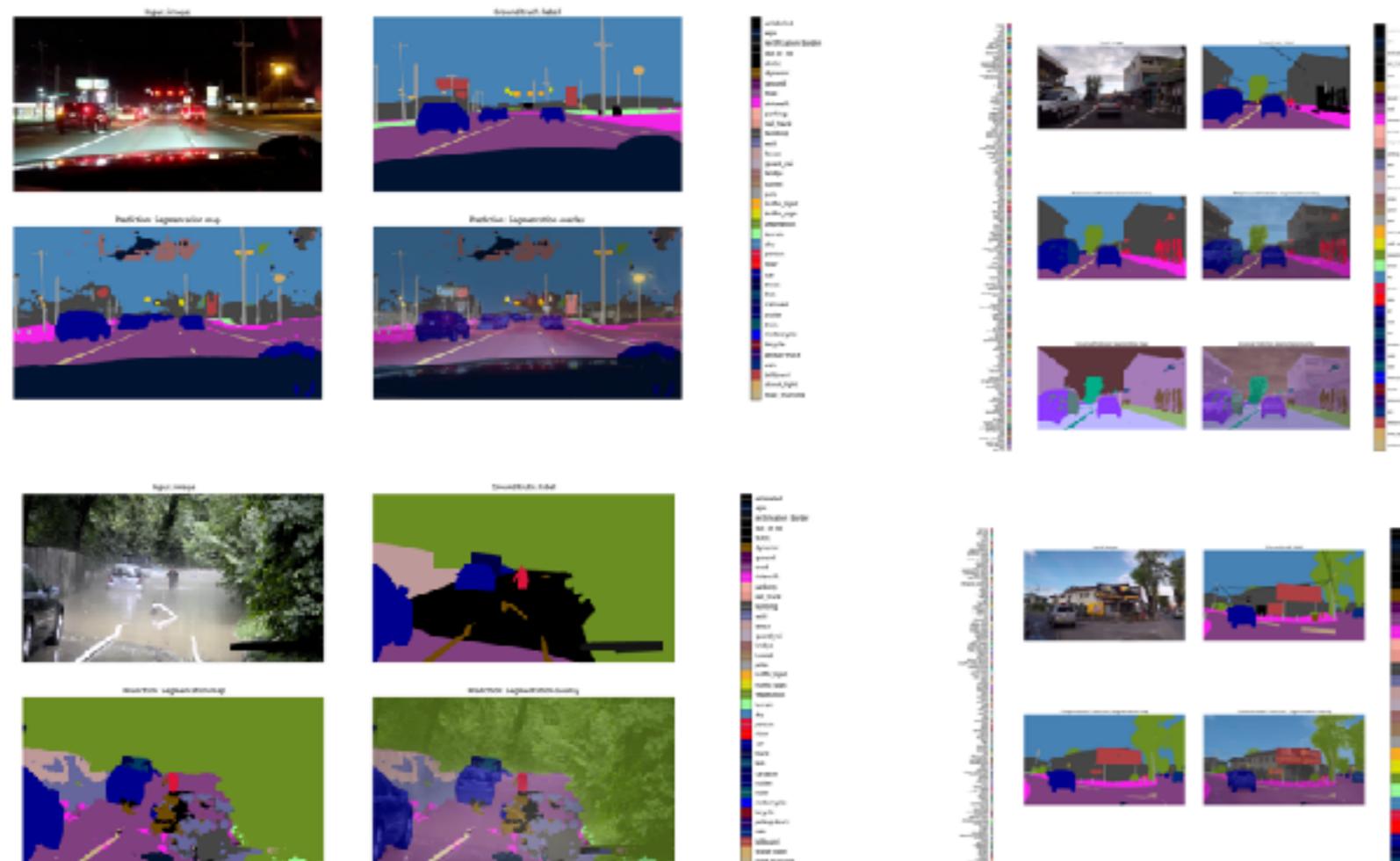
Evaluated except on: unlabeled, rectificationborder, out of roi, static, dynamic, ground, parking, rail track, bridge, tunnel, polegroup, caravan, trailer, train,

Table 1

	Baseline: 0	Baseline: Universal
Evaluated on		
Evaluation dataset		
Training dataset		
Evaluation dataset		
Num classes		
Model		
Ignored classes		
Optimizer		
Momentum		
Weight decay		
Learning rate policy		
Runner		
Max epochs/Iters		
Best epoch/iter		
Samples per gpu		
Number of GPUs		
Initializer		
Crop Size		
Multiscale		
Pipeline		
Additional Details		
aAcc	0.8651000000000001	0.9037000000000001
mIoU	0.4528999999999997	0.5545
mAcc	0.5461	0.6831999999999999
IoU.unlabeled	nan	0.0
IoU.ego	0.8187999725341797	0.8876000213623046
IoU.rectification_border	0.0	nan
IoU.out_of_roi	nan	nan
IoU.static	0.2365999847412108	nan
IoU.dynamic	0.2575	nan
IoU.ground	0.4609000015258789	nan
IoU.road	0.8319000244140625	0.8773999786376954
IoU.sidewalk	0.4609000015258789	0.5102999877929687
IoU.parking	0.27579999923706056	nan
IoU.rail_track	0.0	nan
IoU.building	0.7544000244140625	0.810699969482422
IoU.wall	0.4395000076293945	0.4286999893188477
IoU.fence	0.39849998474121096	0.4754000091552734
IoU.guard_rail	0.44529998779296875	0.43529998779296875
IoU.bridge	0.610999984741211	nan
IoU.tunnel	0.9118000030517578	nan
IoU.pole	0.3536000061035156	0.4843000030517578
IoU.traffic_light	nan	nan
IoU.traffic_sign	0.15489999771118165	0.45060001373291014
IoU.vegetation	0.45479999542236327	0.5795999908447266
IoU.terrain	0.8295999908447266	0.8577999877929687
IoU.sky	0.5288000106811523	0.5897999954223633
IoU.person	0.9405999755859376	0.9533000183105469
IoU.rider	0.5922000122070312	0.7169999694824218
IoU.car	0.42439998626708986	0.4818000030517578
IoU.truck	0.7651000213623047	0.78
IoU.bus	0.662300033569336	0.7031999969482422
IoU.caravan	0.6955999755859374	0.5791999816894531
IoU.trailer	0.0	nan
IoU.train	0.0	nan
IoU.motorcycle	0.5854999923706055	nan
IoU.bicycle	0.47209999084472654	0.5941999816894531
IoU.pickup-truck	0.2	0.32419998168945313
IoU.van	0.24350000381469727	0.22700000762939454
IoU.billboard	0.47959999084472654	0.37849998474121094
IoU.street_light	0.34639999389648435	0.4891999816894531
IoU.road_marking	0.2209000015258789	0.2484000015258789
Acc.unlabeled	nan	nan

	Baseline: 0	Baseline: Universal
Acc.ego	0.9230000305175782	0.9380999755859375
Acc.rectification_border	0.0	nan
Acc.out_of_roi	nan	nan
Acc.static	0.2725	nan
Acc.dynamic	0.32610000610351564	nan
Acc.ground	0.6113000106811524	nan
Acc.road	0.9288999938964844	0.9502999877929688
Acc.sidewalk	0.6208000183105469	0.6227000045776367
Acc.parking	0.2979999923706055	nan
Acc.rail_track	0.0	nan
Acc.building	905	0.894000015258789
Acc.wall	0.580900001525879	0.5906000137329102
Acc.fence	0.49470001220703125	0.6052000045776367
Acc.guard_rail	0.5515999984741211	0.5470999908447266
Acc.bridge	0.7697000122070312	nan
Acc.tunnel	0.9680000305175781	nan
Acc.pole	0.4886000061035156	0.6045000076293945
Acc.traffic_light	nan	nan
Acc.traffic_sign	0.1809000015258789	0.527400016784668
Acc.vegetation	0.5627000045776367	0.6529000091552735
Acc.terrain	925	925
Acc.sky	0.6886000061035156	0.7369999694824219
Acc.person	0.9729000091552734	0.9802999877929688
Acc.rider	0.7894999694824218	0.8127999877929688
Acc.car	0.6473999786376953	0.6711000061035156
Acc.truck	0.9012999725341797	0.8956999969482422
Acc.bus	0.8219999694824218	0.8291999816894531
Acc.caravan	0.8158999633789062	0.6097999954223633
Acc.trailer	0.0	nan
Acc.train	0.0	nan
Acc.motorcycle	0.639900016784668	nan
Acc.bicycle	0.607299954223632	0.7831999969482422
Acc.pickup-truck	0.2359000015258789	0.3554999923706055
Acc.van	0.284099984741211	0.2702000045776367
Acc.billboard	0.5888999938964844	0.678499984741211
Acc.street_light	0.43740001678466794	0.6458000183105469
Acc.road_marking	0.2755999946594238	0.26979999542236327
average_inference_duration	0.5232529566829492	0.4782528478286362
num_images	Configurations	
	700	

	Baseline: 0 flat		
crop_size	512x512		
samples_per_gpu	4		
workers_per_gpu	8		
ignore_index	0		
num_classes	187		
Optimiser	SGD		
Learning rate	Poly; power:0.9; by_epoch		
Epoch	300		
best_epoch	296		
Training samples	3556		
Validation sample	700		
Test sample	Full test data: 700		



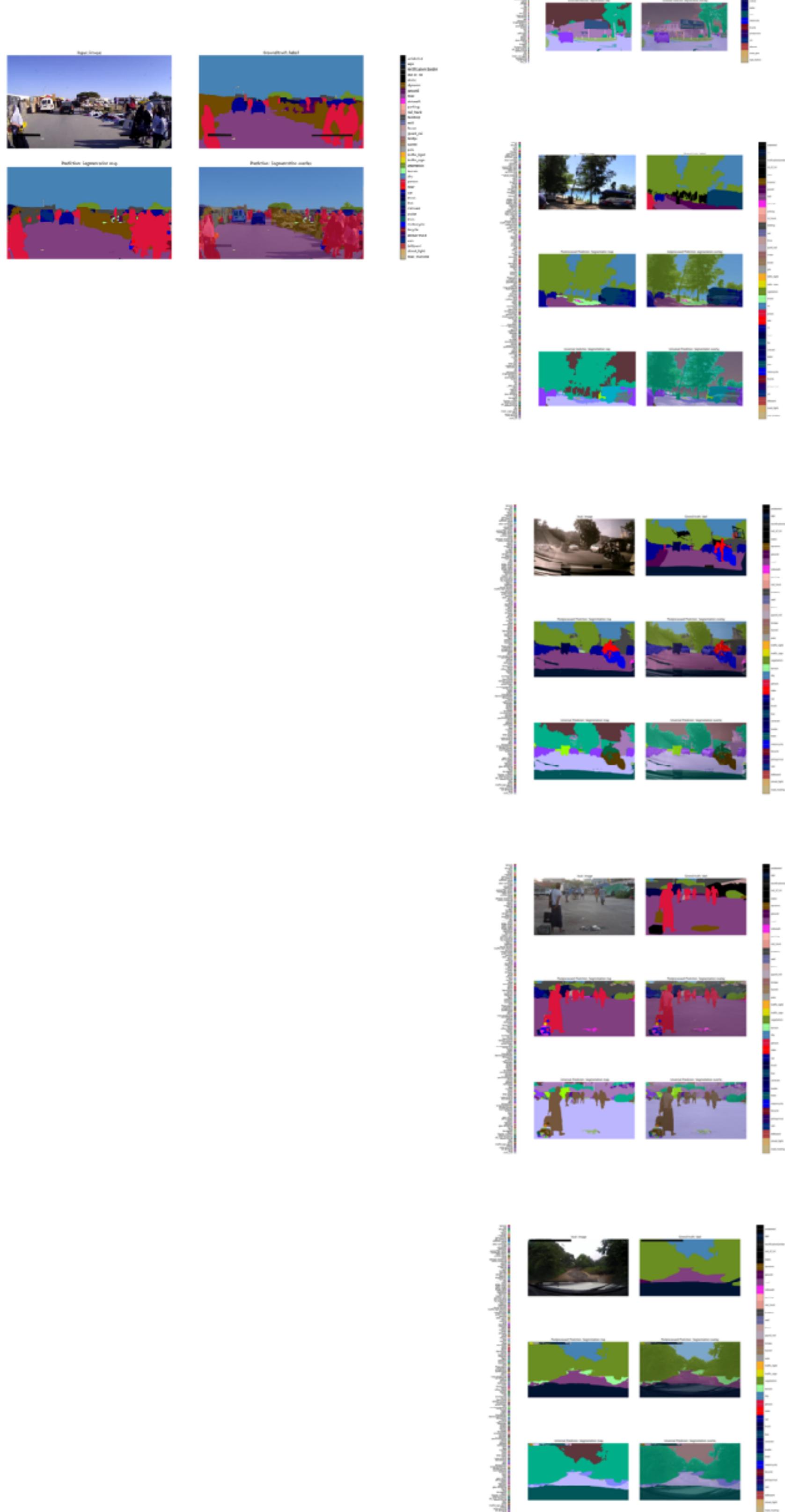


Table 1

	Baseline: 0	
Evaluated on		
Evaluation dataset		
Training dataset		
Evaluation dataset		
Num classes		
Model		
Ignored classes		
Optimizer		
Momentum		
Weight decay		
Learning rate policy		
Runner		
Max epochs/Iters		
Best epoch/iter		
Samples per gpu		
Number of GPUs		
Initializer		
Crop Size		
Multiscale		
Pipeline		
Additional Details		
aAcc	0.7898000000000001	0.7917000000000001
mIoU	0.3867000000000004	0.3045
mAcc	0.4954	0.4046
IoU.ignore	nan	0.0
IoU.wall	0.7336000061035156	0.7344000244140625
IoU.building-edifice	0.7947000122070312	0.8022000122070313
IoU.sky	0.9343000030517579	0.9408000183105468
IoU.floor-flooring	0.7838999938964843	0.7872000122070313
IoU.tree	0.7134999847412109	0.7244999694824219
IoU.ceiling	0.7998000335693359	0.784000015258789
IoU.road-route	0.803499984741211	0.8122000122070312
IoU.bed	0.8340000152587891	0.8406999969482422
IoU.windowpane-window	0.5875	0.563499984741211
IoU.grass	0.6722000122070313	0.6762000274658203
IoU.cabinet	0.5472999954223633	0.5470000076293945
IoU.sidewalk-pavement	0.6302999877929687	0.6568000030517578
IoU.person-	0.7484999847412109	0.7404000091552735

	Baseline: 0	
IoU.earth-ground	0.0	0.32169998168945313
IoU.door-double-door	0.4072999954223633	0.42389999389648436
IoU.table	0.534000015258789	0.5320999908447266
IoU.mountain-mount	0.4991999816894531	0.5554000091552734
IoU.plant-flora-plant-life	0.49790000915527344	0.5106999969482422
IoU.curtain-drape-drapery-	0.6838999938964844	0.6588999938964843
IoU.chair	0.49290000915527343	0.517400016784668
IoU.car-auto-automobile-machine-	0.800199966430664	0.8272000122070312
IoU.water	0.5168000030517578	0.4265999984741211
IoU.painting-picture	0.6815000152587891	0.6224000167846679
IoU.sofa-couch-lounge	0.5493000030517579	0.5643000030517578
IoU.shelf	0.3529000091552734	0.35619998931884767
IoU.house	0.37349998474121093	0.2402000045776367
IoU.sea	0.492400016784668	0.4306000137329102
IoU.mirror	0.523499984741211	0.4647000122070313
IoU.rug-carpet-carpeting	0.5147000122070312	0.518400001525879
IoU.field	0.21690000534057619	0.24989999771118165
IoU.armchair	0.293700008392334	0.27260000228881837
IoU.seat	0.4725	0.5086999893188476
IoU.fence-fencing	0.3146999931335449	0.35200000762939454
IoU.desk	0.3965000152587891	0.3759000015258789
IoU.rock-stone	0.349900016784668	0.35970001220703124
IoU.wardrobe-closet-press	0.44060001373291013	0.45290000915527345
IoU.lamp	0.5647999954223633	0.49029998779296874
IoU.bathtub-	0.7052999877929688	0.7055999755859375
IoU.railing-rail	0.3039999961853027	0.28639999389648435
IoU.cushion	0.4409000015258789	0.43209999084472656
IoU.base-pedestal-stand	0.10579999923706054	0.06690000057220459
IoU.box	0.16190000534057616	0.09479999542236328
IoU.column-pillar	0.38029998779296875	0.3963999938964844
IoU.signboard-sign	0.30260000228881834	0.32669998168945313
IoU.chest-of-drawers-	0.33279998779296877	0.36380001068115236
IoU.counter	0.25489999771118166	0.238700008392334
IoU.sand	0.34759998321533203	0.27680000305175784
IoU.sink	0.6611000061035156	0.5820999908447265
IoU.skyscraper	0.37020000457763674	0.5438999938964844
IoU.fireplace-hearth-open	0.5402000045776367	0.513499984741211
IoU.refrigerator-icebox	0.610099983215332	0.6056999969482422
IoU.grandstand-covered-stand	0.3529999923706055	0.35069999694824217
IoU.path	0.21950000762939453	0.1468000030517578
IoU.stairs-steps	0.3227000045776367	0.26829999923706055
IoU.runway	0.5722000122070312	0.5652000045776367
IoU.case-display-cas	0.455099983215332	0.38540000915527345
IoU.pool-table-billiard-	0.9095999908447265	0.8511000061035157
IoU.pillow	0.5113000106811524	0.4675
IoU.screen-door-screen	0.5534000015258789	0.5613999938964844
IoU.stairway-staircase	0.251200008392334	0.24440000534057618
IoU.river	0.15399999618530275	0.1559000015258789
IoU.bridge-span	0.560099983215332	0.6165999984741211
IoU.bookcase	0.33279998779296877	0.29770000457763673
IoU.blind-screen	0.41779998779296873	0.2681999969482422
IoU.coffee-table-cocktail-table	0.557599983215332	495
IoU.toilet-can-	0.8169999694824219	0.724800033569336
IoU.flower	0.33099998474121095	0.20489999771118164
IoU.book	0.45119998931884764	0.4154000091552734

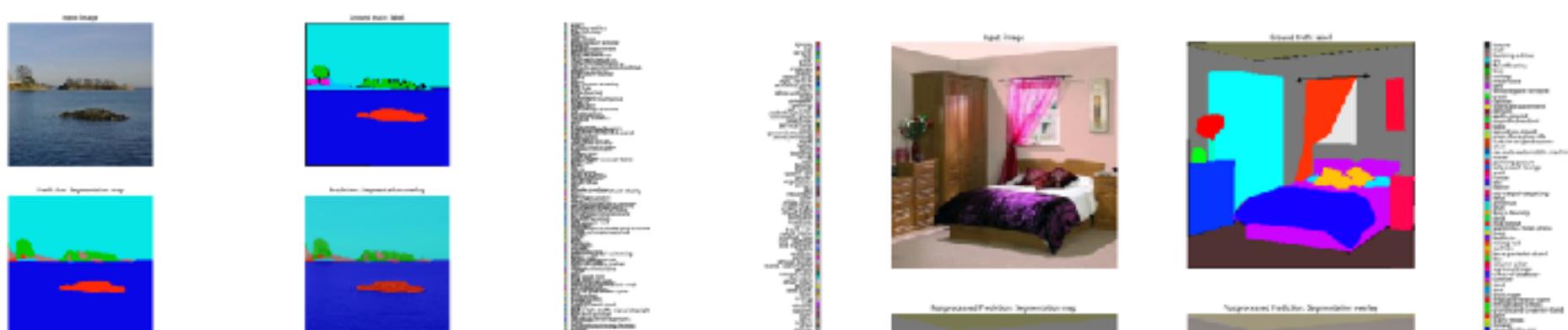
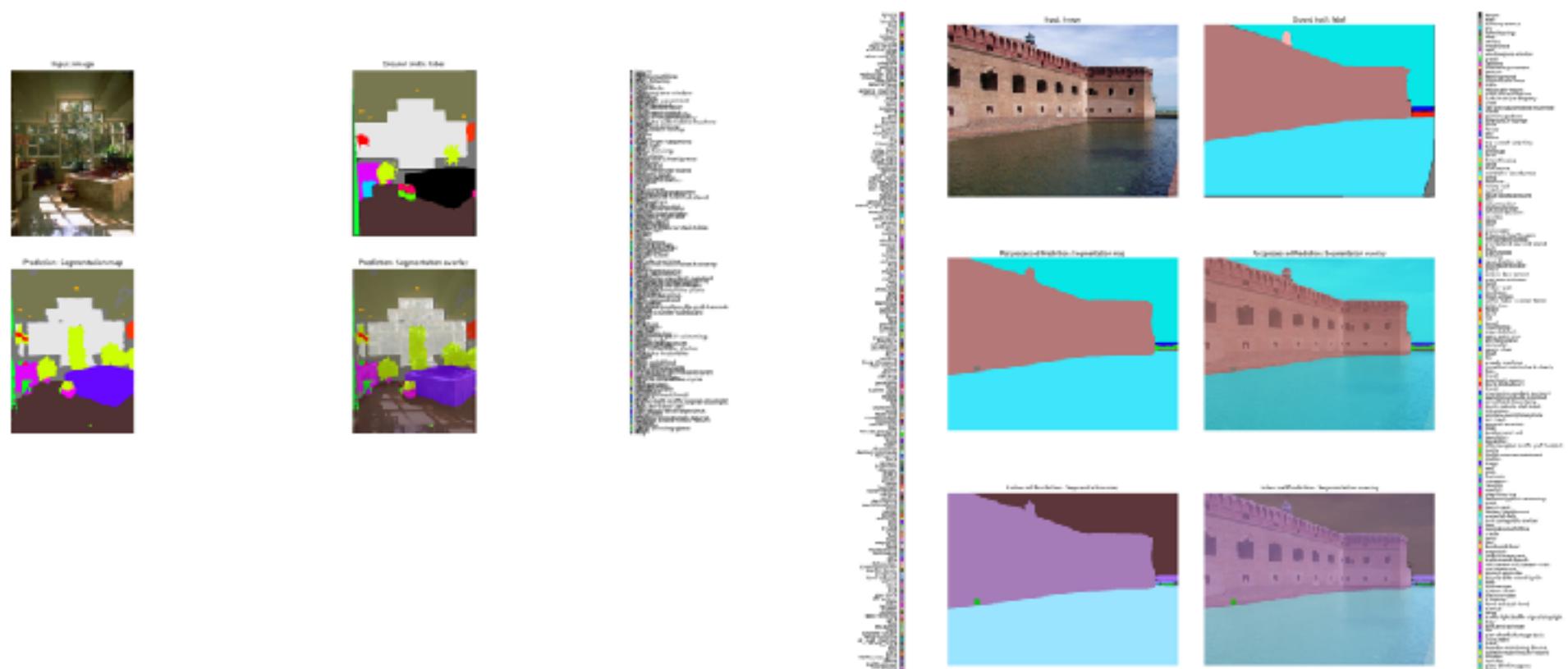
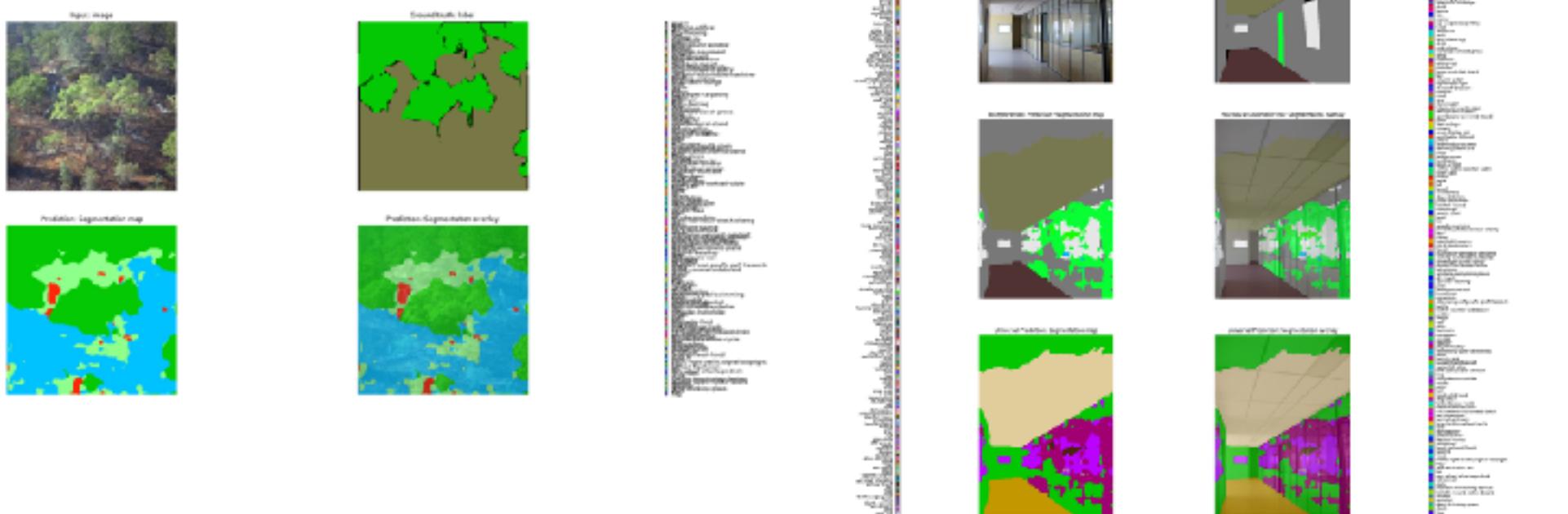
	Baseline: 0	
IoU.hill	0.0676999980926514	0.03549999523162844
IoU.bench	0.37810001373291013	0.312800068664551
IoU.countertop	0.5036999893188476	0.536399938964844
IoU.stove-kitchen-	0.614799954223633	0.4583000183105469
IoU.palm-palm-tree	0.4170999084472654	0.4438000106811523
IoU.kitchen-island	0.301800030517578	0.267199931335449
IoU.computer-	0.524599908447265	0.437000076293945
IoU.swivel-chair	0.37810001373291013	0.43259998321533205
IoU.boat	0.0	0.0
IoU.bar	0.1985000381469726	0.0471000038146973
IoU.arcade-machine	0.188199969482422	0.0411000133514404
IoU.hovel-hut-hutch-shack-shanty	0.261599984741211	0.00910000262260438
IoU.bus-	0.770400091552734	0.7023999786376953
IoU.towel	0.45740001678466796	0.35369998931884766
IoU.light-light-source	0.4911999893188477	0.33220001220703127
IoU.truck-motortruck	0.229799954223633	0.3404999237060546
IoU.tower	0.306800030517578	0.1171000038146973
IoU.chandelier-pendant-pendent	0.6	0.47869998931884766
IoU.awning-sunshade-sunblind	0.2831999694824216	0.19190000534057616
IoU.streetlight-street-lamp	0.2035000381469727	0.2429000915527343
IoU.booth-cubicle-stall-kiosk	0.3563999389648436	0.01330000429153443
IoU.television-	0.5325999832153321	0.3186000610351563
IoU.airplane-aeroplane-plane	0.504500076293945	0.516800030517578
IoU.dirt-track	0.1268000305175781	0.0
IoU.apparel-wearing-	0.277399977111816	0.2139999618530274
IoU.pole	0.1695000762939454	0.2348999771118164
IoU.land-ground-soil	0.0139999976158142	0.0
IoU.bannister-	0.024900009536743	0.0
IoU.escalator-	0.1496000038146973	0.0
IoU.ottoman-pouf-pouffe-puff-hassock	0.2557999923706054	0.03109998950958253
IoU.bottle	0.17049999237060548	0.0
IoU.buffet-counter-sideboard	0.3613999389648436	0.0
IoU.poster-	0.1343000305175782	0.0
IoU.stage	0.0839000343322754	0.0
IoU.van	0.367999923706055	0.2329000915527342
IoU.ship	0.2878000686645507	0.215300068664551
IoU.fountain	0.1109000152587891	0.0
IoU.conveyer-	0.6791999816894532	0.0
IoU.canopy	0.0432000171661377	0.0
IoU.washer-	0.570499923706054	0.5636999893188477
IoU.plaything-toy	0.1327000457763673	0.0
IoU.swimming-pool-swimming	0.340099983215332	0.1192000076293945
IoU.stool	0.283799991607666	0.0
IoU.barrel-cask	0.1885000381469725	0.0
IoU.basket-handbasket	0.1527999732971192	0.0
IoU.waterfall-falls	0.609799954223633	0.530499923706055
IoU.tent-collapsible-shelter	0.817099908447265	0.756999694824219
IoU.bag	0.0323000019073486	0.0
IoU.minibike-motorbike	0.462099908447266	0.5375
IoU.cradle	0.701100061035156	0.537700045776367
IoU.oven	0.1593000305175782	0.0
IoU.ball	0.3815999847412107	0.202299954223633
IoU.food-solid-food	0.508400015258789	0.04050001907348634
IoU.step-stair	0.01149999761581422	0.0

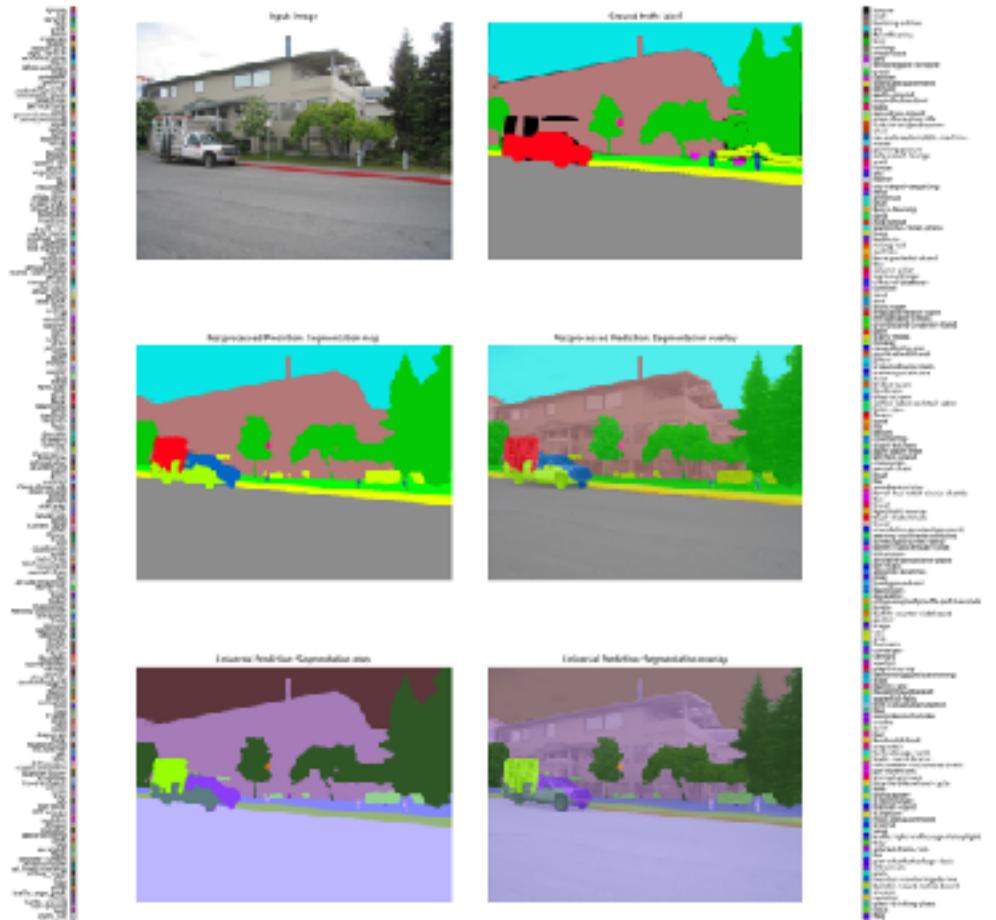
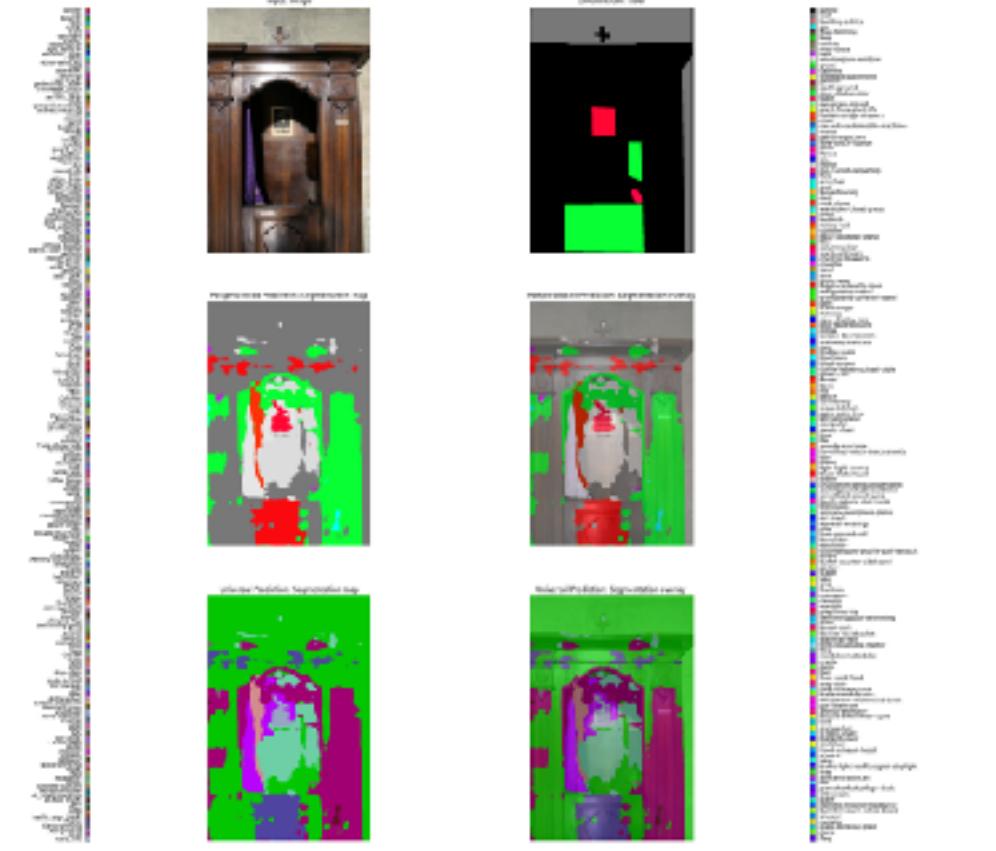
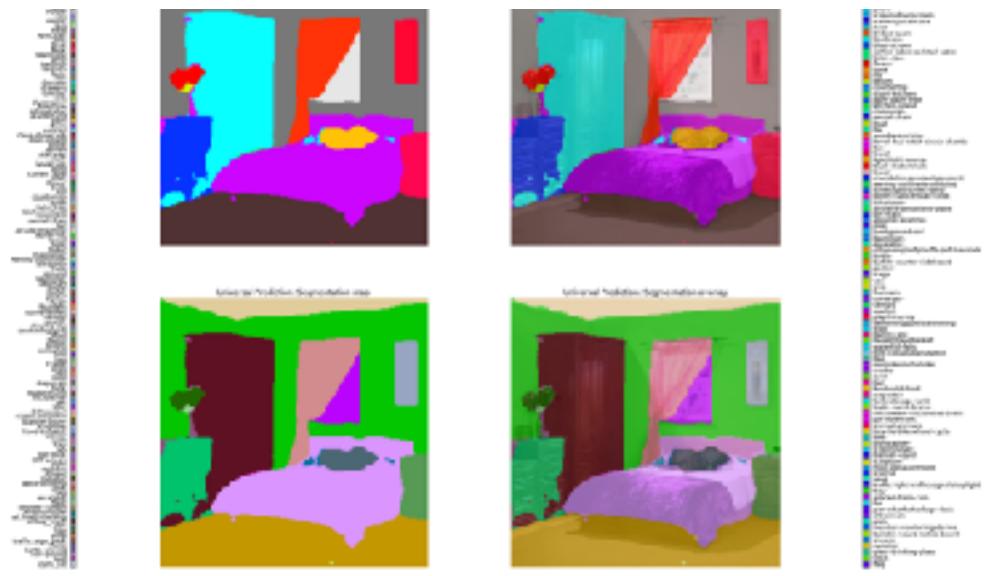
	Baseline: 0	
IoU.tank-storage-tank	0.293799991607666	0.0
IoU.trade-name-brand-	0.2453000068664551	0.0
IoU.microwave-microwave-oven	0.3461000061035156	0.08029999732971191
IoU.pot-flowerpot	0.35069999694824217	0.019199999570846556
IoU.animal-animate-	0.3965999984741211	0.0
IoU.bicycle-bike-wheel-cycle	0.40130001068115234	0.4520000076293945
IoU.lake	0.0075	0.0
IoU.dishwasher-	0.537400016784668	0.0
IoU.screen-silver-	0.6279999923706054	0.5320000076293945
IoU.blanket-cover	0.012799999713897704	0.0
IoU.sculpture	0.1884000015258789	0.0
IoU.hood-exhaust-hood	0.528499984741211	0.0
IoU.sconce	0.1809000015258789	0.0
IoU.vase	0.2795999908447266	0.0
IoU.traffic-light-traffic-signal-stoplight	0.03190000057220459	0.2673999977111816
IoU.tray	0.028299999237060548	0.0
IoU.ashcan-trash-can	0.30489999771118165	0.37009998321533205
IoU.fan	0.3640999984741211	0.0
IoU.pier-wharf-wharfage-dock	0.22389999389648438	0.0
IoU.crt-screen	0.0015000000596046448	0.0
IoU.plate	0.35200000762939454	0.0
IoU.monitor-monitoring-device	0.2159000015258789	0.0
IoU.bulletin-board-notice-board	0.2713999938964844	0.31670000076293947
IoU.shower	0.0	0.0
IoU.radiator	0.3697999954223633	0.0
IoU.glass-drinking-glass	0.03480000019073486	0.0
IoU.clock	0.18209999084472656	0.0
IoU.flag	0.2031999969482422	0.0
Acc.ignore	nan	nan
Acc.wall	0.8680999755859375	0.8588999938964844
Acc.building-edifice	0.9109999847412109	0.9208999633789062
Acc.sky	0.9640000152587891	0.9716999816894532
Acc.floor-flooring	0.8868000030517578	0.8945999908447265
Acc.tree	0.8859999847412109	0.86
Acc.ceiling	0.8976000213623047	0.8811000061035156
Acc.road-route	0.8841000366210937	0.9033999633789063
Acc.bed	0.946500015258789	0.9508999633789063
Acc.windowpane-window	0.7822000122070313	0.7761000061035156
Acc.grass	0.8425	0.8287999725341797
Acc.cabinet	0.6931999969482422	0.7023999786376953
Acc.sidewalk-pavement	0.8043000030517579	0.8327999877929687
Acc.person-	0.9151000213623047	0.9166999816894531
Acc.earth-ground	0.0	0.4640999984741211
Acc.door-double-door	0.5549000167846679	0.5858000183105468
Acc.table	0.7033999633789062	0.7465000152587891
Acc.mountain-mount	0.6213999938964844	0.7101999664306641
Acc.plant-flora-plant-life	0.630099983215332	0.6773999786376953
Acc.curtain-drape-drapery-	0.8241999816894531	0.8376000213623047
Acc.chair	0.6593000030517578	0.7029000091552734
Acc.car-auto-automobile-machine-	0.9106999969482422	0.923499984741211
Acc.water	0.7541000366210937	0.6311000061035156
Acc.painting-picture	855	0.8594000244140625
Acc.sofa-couch-lounge	0.7648000335693359	0.7813999938964844
Acc.shelf	0.47389999389648435	0.5147000122070312

	Baseline: 0	
Acc.house	0.46950000762939453	0.3006999969482422
Acc.sea	0.6075	0.7151999664306641
Acc.mirror	0.5850999832153321	0.6181000137329101
Acc.rug-carpet-carpeting	0.6343000030517578	0.6504000091552734
Acc.field	0.31549999237060544	0.380099983215332
Acc.armchair	0.41	0.42709999084472655
Acc.seat	0.6712000274658203	0.6805000305175781
Acc.fence-fencing	0.44479999542236326	0.4697999954223633
Acc.desk	0.5888999938964844	0.5488000106811524
Acc.rock-stone	0.5608000183105468	0.6443000030517578
Acc.wardrobe-closet-press	0.6508000183105469	0.7056999969482421
Acc.lamp	0.7297000122070313	0.6854000091552734
Acc.bathtub-	0.7901000213623047	0.8002999877929687
Acc.railing-rail	0.4331000137329102	0.4052999877929688
Acc.cushion	0.5636999893188477	0.6036000061035156
Acc.base-pedestal-stand	0.15920000076293944	0.0875
Acc.box	0.22760000228881835	0.17569999694824218
Acc.column-pillar	0.5222000122070313	0.523400001525879
Acc.signboard-sign	0.457599983215332	0.4936999893188477
Acc.chest-of-drawers-	0.49290000915527343	0.500099983215332
Acc.counter	0.3447000122070312	0.3504000091552734
Acc.sand	0.4384000015258789	0.3606000137329102
Acc.sink	0.7609999847412109	0.8131999969482422
Acc.skyscraper	0.4311000061035156	0.7462000274658203
Acc.fireplace-hearth-open	0.7551000213623047	0.7098999786376953
Acc.refrigerator-icebox	0.7776999664306641	0.7855000305175781
Acc.grandstand-covered-stand	0.5952000045776367	0.5409999847412109
Acc.path	0.30639999389648437	0.2025
Acc.stairs-steps	0.3881999969482422	0.3145000076293945
Acc.runway	0.7362000274658204	0.6841000366210938
Acc.case-display-cas	0.6347000122070312	0.6084999847412109
Acc.pool-table-billiard-	0.9562000274658203	0.9381999969482422
Acc.pillow	0.6712999725341797	0.5383000183105469
Acc.screen-door-screen	0.752300033569336	0.7493000030517578
Acc.stairway-staircase	0.3168000030517578	0.37909999847412107
Acc.river	0.18190000534057618	0.22430000305175782
Acc.bridge-span	0.6698000335693359	0.7780999755859375
Acc.bookcase	0.4386999893188477	0.39049999237060545
Acc.blind-screen	0.4540000152587891	0.2940999984741211
Acc.coffee-table-cocktail-table	0.8151000213623046	0.6991999816894531
Acc.toilet-can-	0.8834999847412109	0.9005000305175781
Acc.flower	0.49139999389648437	0.4247999954223633
Acc.book	0.6727999877929688	0.6363000106811524
Acc.hill	0.08220000267028808	0.03680000667572025
Acc.bench	0.4740999984741211	0.3763000106811523
Acc.countertop	0.6483999633789063	0.7008999633789063
Acc.stove-kitchen-	0.7720999908447266	0.710999984741211
Acc.palm-palm-tree	0.5325999832153321	0.6186999893188476
Acc.kitchen-island	0.5366999816894531	0.3745000076293945
Acc.computer-	0.648499984741211	0.667300033569336
Acc.swivel-chair	0.5974000167846679	0.6727999877929688
Acc.boat	0.0	0.0
Acc.bar	0.21139999389648437	0.047899999618530274
Acc.arcade-machine	0.22799999237060548	45
Acc.hovel-hut-hutch-shack-shanty	0.36020000457763673	0.009599999785423278

	Baseline: 0	
Acc.bus-	0.9088999938964843	0.9591999816894531
Acc.towel	0.5825	0.4465999984741211
Acc.light-light-source	0.6136000061035156	0.40290000915527346
Acc.truck-motortruck	0.36840000152587893	0.4684000015258789
Acc.tower	0.40380001068115234	0.12470000267028808
Acc.chandelier-pendant-pendent	0.7451999664306641	0.6036000061035156
Acc.awning-sunshade-sunblind	0.38459999084472657	0.29450000762939454
Acc.streetlight-street-lamp	0.33180000305175783	0.3402000045776367
Acc.booth-cubicle-stall-kiosk	0.41689998626708985	0.013300000429153443
Acc.television-	0.7686000061035156	0.5206999969482422
Acc.airplane-aeroplane-plane	0.6497000122070312	0.624000015258789
Acc.dirt-track	0.16700000762939454	0.0
Acc.apparel-wearing-	0.40200000762939453	0.286200008392334
Acc.pole	0.2397999542236327	0.3970999908447266
Acc.land-ground-soil	0.5256999969482422	0.0
Acc.bannister-	0.029700000286102295	0.0
Acc.escalator-	0.17209999084472657	0.0
Acc.ottoman-pouf-pouffe-puff-hassock	0.3484999847412109	0.03160000085830689
Acc.bottle	0.20409999847412108	0.0
Acc.buffet-counter-sideboard	0.4109999847412109	0.0
Acc.poster-	0.18899999618530272	0.0
Acc.stage	0.11229999542236328	0.0
Acc.van	0.5006000137329102	0.3320999908447266
Acc.ship	0.6605999755859375	0.5218999862670899
Acc.fountain	0.11380000114440918	0.0
Acc.conveyer-	0.7802999877929687	0.0
Acc.canopy	0.04539999961853027	0.0
Acc.washer-	0.6102999877929688	0.5970000076293945
Acc.plaything-toy	0.1909000015258789	0.0
Acc.swimming-pool-swimming	0.44799999237060545	0.14659999847412108
Acc.stool	0.31989999771118166	0.0
Acc.barrel-cask	0.26360000610351564	0.0
Acc.basket-handbasket	0.19930000305175782	0.0
Acc.waterfall-falls	0.7136000061035156	0.6708000183105469
Acc.tent-collapsible-shelter	0.984800033569336	0.7987000274658204
Acc.bag	0.03440000057220459	0.0
Acc.minibike-motorbike	0.5631999969482422	0.6612000274658203
Acc.cradle	0.8672000122070312	0.7218000030517578
Acc.oven	0.28920000076293945	0.0
Acc.ball	0.4515000152587891	0.24100000381469727
Acc.food-solid-food	0.5890000152587891	0.04070000171661377
Acc.step-stair	0.01259999904632569	0.0
Acc.tank-storage-tank	0.31260000228881835	0.0
Acc.trade-name-brand-	0.29709999084472655	0.0
Acc.microwave-microwave-oven	0.39529998779296877	0.08199999809265136
Acc.pot-flowerpot	0.4031999969482422	0.019299999475479127
Acc.animal-animate-	0.4125	0.0
Acc.bicycle-bike-wheel-cycle	0.6113000106811524	0.7320999908447265
Acc.lake	0.009700000286102295	0.0
Acc.dishwasher-	0.6862999725341797	0.0
Acc.screen-silver-	0.8665000152587891	0.7225
Acc.blanket-cover	0.01309999942779541	0.0
Acc.sculpture	0.26149999618530273	0.0
Acc.hood-exhaust-hood	0.6059000015258789	0.0

	Baseline: 0	
Acc.sconce	0.20139999389648439	0.0
Acc.vase	0.4229999923706055	0.0
Acc.traffic-light-traffic-signal-stoplight	0.03309999942779541	0.3584000015258789
Acc.tray	0.03230000019073486	0.0
Acc.ashcan-trash-can	0.4656999969482422	0.5277999877929688
Acc.fan	0.5115999984741211	0.0
Acc.pier-wharf-wharfage-dock	0.3152000045776367	0.0
Acc.crt-screen	0.00219999988079071	0.0
Acc.plate	0.4620999908447266	0.0
Acc.monitor-monitoring-device	0.22739999771118163	0.0
Acc.bulletin-board-notice-board	0.37099998474121093	0.518499984741211
Acc.shower	0.0	0.0
Acc.radiator	0.4031999969482422	0.0
Acc.glass-drinking-glass	0.03559999942779541	0.0
Acc.clock	0.21350000381469728	0.0





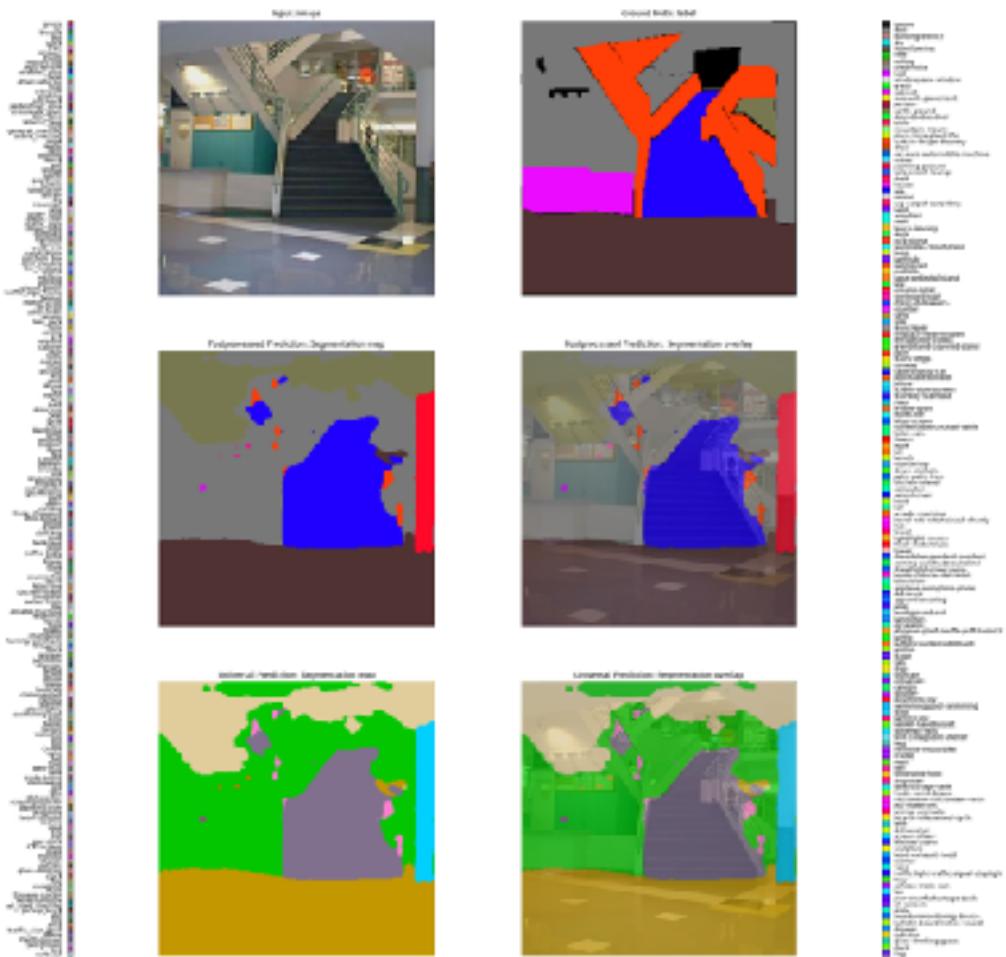


Table 1

	Baseline: 0	
Evaluated on		
Evaluation dataset		
Training dataset		
Evaluation dataset		
Num classes		
Model		
Ignored classes		
Optimizer		
Momentum		
Weight decay		
Learning rate policy		
Runner		
Max epochs/Iters		
Best epoch/iter		
Samples per gpu		
Number of GPUs		
Initializer		
Crop Size		
Multiscale		
Pipeline		
Additional Details		
aAcc	0.6953	0.6970999999999999
mIoU	0.3787	0.5948
mAcc	0.5005	853
IoU.ignore	nan	9.99999776482581e-05
IoU.wall	0.627299954223633	0.641100061035156
IoU.floor	0.6891000366210938	0.813499984741211
IoU.cabinet	0.318500038146973	0.622400167846679
IoU.bed	0.485999847412109	0.7287999725341797
IoU.chair	0.39	0.6894999694824219
IoU.sofa	0.2385000381469727	0.7797000122070312
IoU.table	0.4479000915527345	0.7055000305175781
IoU.door	0.29469999313354495	0.656100061035156
IoU.window	0.23459999084472657	0.4954000915527344
IoU.bookshelf	0.37099998474121093	0.452000076293945
IoU.picture	0.29950000762939455	0.5668999862670898
IoU.counter	0.24950000762939453	0.5227000045776368
IoU.desk	nan	nan
IoU.curtain	0.2965999984741211	0.5418000030517578
IoU.refridgerator	nan	nan
IoU.showercurtain	0.3584999847412109	0.706100061035156
IoU.toilet	nan	nan
IoU.sink	nan	nan
IoU.bathtub	nan	nan
IoU.otherfurniture	nan	nan
Acc.ignore	nan	9.99999776482581e-05
Acc.wall	0.8894000244140625	0.9512999725341796

	Baseline: 0	
Acc.floor	0.8925	0.9570999908447265
Acc.cabinet	0.3693000030517578	0.9109999847412109
Acc.bed	0.5815999984741211	0.9691000366210938
Acc.chair	0.5202000045776367	0.9022000122070313
Acc.sofa	0.2577000045776367	0.9519999694824218
Acc.table	0.5788000106811524	0.9019999694824219
Acc.door	0.37540000915527344	0.8976000213623047
Acc.window	0.261200008392334	0.884000015258789
Acc.bookshelf	0.47959999084472654	0.9380000305175781
Acc.picture	0.3725	0.8358000183105468
Acc.counter	0.48779998779296874	0.8813999938964844
Acc.desk	nan	nan
Acc.curtain	0.4656999969482422	0.912300033569336
Acc.refridgerator	nan	nan
Acc.showercurtain	0.47569999694824217	0.9015000152587891
Acc.toilet	nan	nan
Acc.sink	nan	nan
Acc.bathtub	nan	nan
Acc.otherfurniture	nan	nan
average_inference_duration	0.24125451297338582	0.15530334575572333
num_images	5281	5281

Configurations

	Baseline:0 flat			
crop_size	512x512			
samples_per_gpu	4			
workers_per_gpu	8			
ignore_index	0			
num_classes	187			
Optimiser	SGD			
Epoch	8			
best_epoch	7			
Validation sample	1000			
Test sample	Full test data: 5281			

