

Micro-Swarm Dump Report

dump_dir: dumps\Baseline-Paper_Run
prefix: baseline
steps: 10
normalization: global

Summary over time

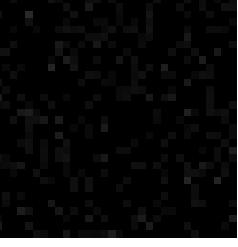
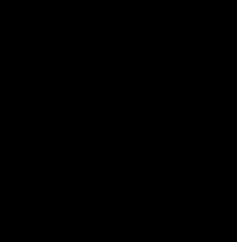
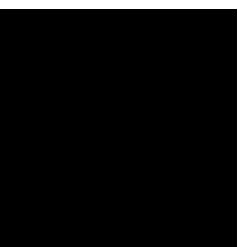
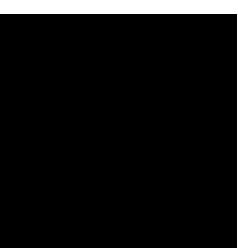
Field	mean	nonzero_ratio	norm_entropy
resources	 (0.0148 .. 0.1992)	 (0.0197 .. 1.0000)	 (0.0395 .. 0.7964)
phero_food	 (0.0000 .. 0.0421)	 (0.0000 .. 0.9998)	 (0.0000 .. 0.7539)
phero_danger	 (0.0000 .. 0.0003)	 (0.0000 .. 0.0927)	 (0.0000 .. 0.1138)
molecules	 (0.0000 .. 0.0011)	 (0.0000 .. 0.4025)	 (0.0000 .. 0.3154)
mycel	 (0.0000 .. 0.0831)	 (0.0000 .. 1.0000)	 (0.0000 .. 0.8772)

System over time

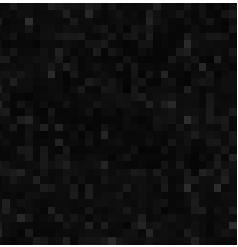
Metric	Sparkline
dna_global_size	 (0.0000 .. 0.0000)
dna_s0	 (0.0000 .. 256.0000)
dna_s1	 (0.0000 .. 256.0000)
dna_s2	 (0.0000 .. 256.0000)
dna_s3	 (0.0000 .. 256.0000)
energy_s0	 (0.3933 .. 0.9595)
energy_s1	 (0.3830 .. 0.9594)
energy_s2	 (0.4012 .. 0.9716)
energy_s3	 (0.3923 .. 0.9815)

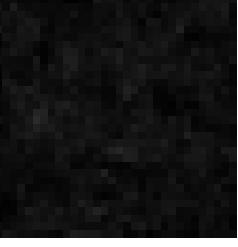
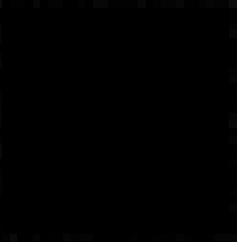
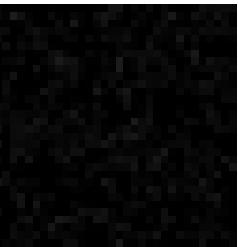
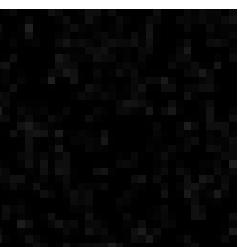
Step 0

Field	CSV	Stats	Preview
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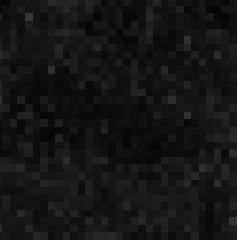
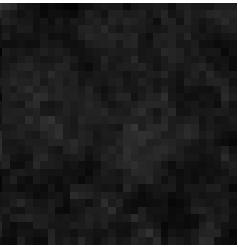
resources	baseline_step000000_resources.csv	min=0.0000 max=1.0000 mean=0.0148 stddev=0.1065 nonzero_ratio=0.0197 p95=0.0000 entropy=0.1641 norm_entropy=0.0395	
phero_food	baseline_step000000_phero_food.csv	min=0.0000 max=0.0000 mean=0.0000 stddev=0.0000 nonzero_ratio=0.0000 p95=0.0000 entropy=0.0000 norm_entropy=0.0000	
phero_danger	baseline_step000000_phero_danger.csv	min=0.0000 max=0.0000 mean=0.0000 stddev=0.0000 nonzero_ratio=0.0000 p95=0.0000 entropy=0.0000 norm_entropy=0.0000	
molecules	baseline_step000000_molecules.csv	min=0.0000 max=0.0000 mean=0.0000 stddev=0.0000 nonzero_ratio=0.0000 p95=0.0000 entropy=0.0000 norm_entropy=0.0000	
mycel	baseline_step000000_mycel.csv	min=0.0000 max=0.0000 mean=0.0000 stddev=0.0000 nonzero_ratio=0.0000 p95=0.0000 entropy=0.0000 norm_entropy=0.0000	

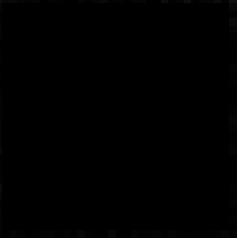
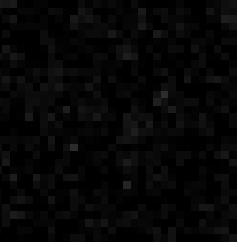
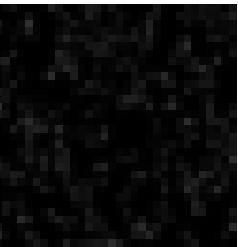
Step 50

Field	CSV	Stats	Preview
resources	baseline_step000050_resources.csv	min=0.0020 max=1.0000 mean=0.0568 stddev=0.1017 nonzero_ratio=1.0000 p95=0.0750 entropy=1.6849 norm_entropy=0.4051	

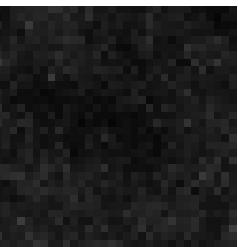
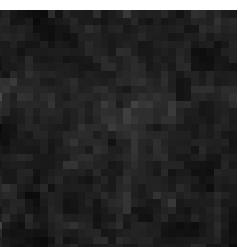
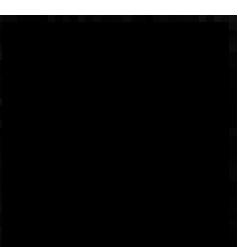
phero_food	baseline_step000050_phero_food.csv	min=0.0000 max=0.1190 mean=0.0162 stddev=0.0101 nonzero_ratio=0.9838 p95=0.0350 entropy=2.9432 norm_entropy=0.7077	
phero_danger	baseline_step000050_phero_danger.csv	min=0.0000 max=0.0420 mean=0.0001 stddev=0.0012 nonzero_ratio=0.0368 p95=0.0000 entropy=0.2318 norm_entropy=0.0557	
molecules	baseline_step000050_molecules.csv	min=0.0000 max=0.0200 mean=0.0008 stddev=0.0019 nonzero_ratio=0.3506 p95=0.0040 entropy=1.1504 norm_entropy=0.2766	
mycel	baseline_step000050_mycel.csv	min=0.0000 max=0.1010 mean=0.0043 stddev=0.0094 nonzero_ratio=0.5417 p95=0.0210 entropy=1.6884 norm_entropy=0.4060	

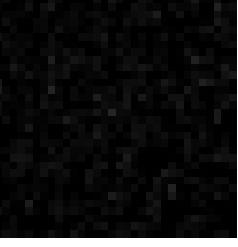
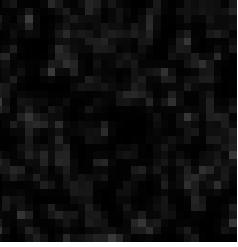
Step 100

Field	CSV	Stats	Preview
resources	baseline_step000100_resources.csv	min=0.0020 max=1.0000 mean=0.0815 stddev=0.1020 nonzero_ratio=1.0000 p95=0.1500 entropy=2.2846 norm_entropy=0.5493	
phero_food	baseline_step000100_phero_food.csv	min=0.0000 max=0.1350 mean=0.0286 stddev=0.0129 nonzero_ratio=0.9933 p95=0.0510 entropy=3.1356 norm_entropy=0.7539	

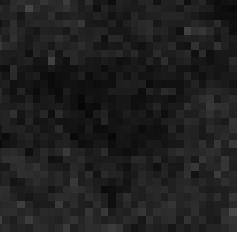
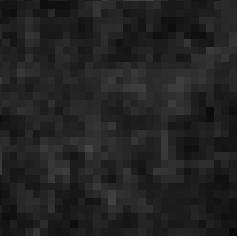
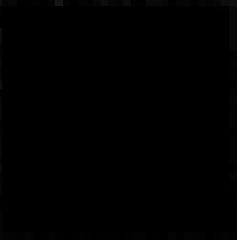
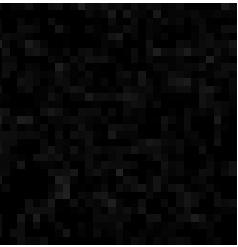
phero_danger	baseline_step000100_phero_danger.csv	min=0.0000 max=0.0550 mean=0.0002 stddev=0.0013 nonzero_ratio=0.0601 p95=0.0010 entropy=0.3351 norm_entropy=0.0806	
molecules	baseline_step000100_molecules.csv	min=0.0000 max=0.0250 mean=0.0009 stddev=0.0021 nonzero_ratio=0.3627 p95=0.0050 entropy=1.2139 norm_entropy=0.2919	
mycel	baseline_step000100_mycel.csv	min=0.0000 max=0.1170 mean=0.0079 stddev=0.0124 nonzero_ratio=0.7809 p95=0.0310 entropy=2.3596 norm_entropy=0.5674	

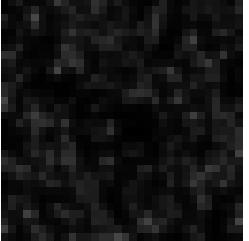
Step 150

Field	CSV	Stats	Preview
resources	baseline_step000150_resources.csv	min=0.0020 max=1.0000 mean=0.1020 stddev=0.1043 nonzero_ratio=1.0000 p95=0.1850 entropy=2.6036 norm_entropy=0.6260	
phero_food	baseline_step000150_phero_food.csv	min=0.0000 max=0.2400 mean=0.0348 stddev=0.0140 nonzero_ratio=0.9984 p95=0.0600 entropy=2.6458 norm_entropy=0.6362	
phero_danger	baseline_step000150_phero_danger.csv	min=0.0000 max=0.0540 mean=0.0002 stddev=0.0015 nonzero_ratio=0.0735 p95=0.0010 entropy=0.3911 norm_entropy=0.0940	

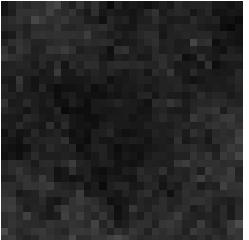
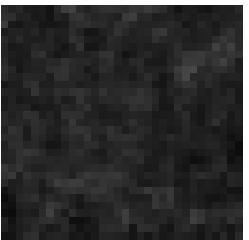
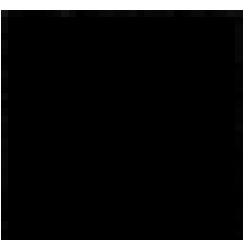
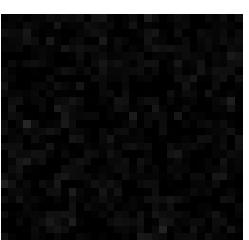
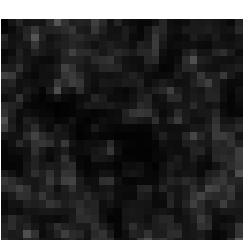
molecules	baseline_step000150_molecules.csv	min=0.0000 max=0.0260 mean=0.0010 stddev=0.0022 nonzero_ratio=0.3832 p95=0.0050 entropy=1.2521 norm_entropy=0.3011	
mycel	baseline_step000150_mycel.csv	min=0.0000 max=0.1270 mean=0.0114 stddev=0.0142 nonzero_ratio=0.9327 p95=0.0380 entropy=2.7628 norm_entropy=0.6643	

Step 200

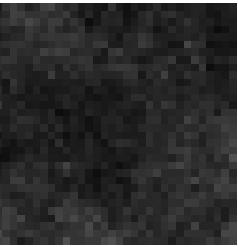
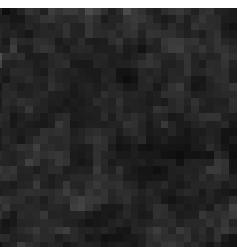
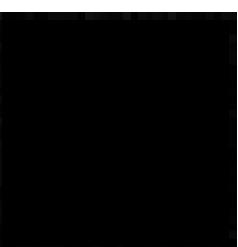
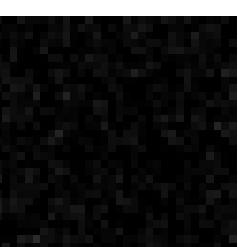
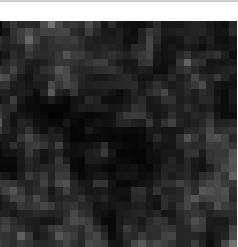
Field	CSV	Stats	Preview
resources	baseline_step000200_resources.csv	min=0.0020 max=1.0000 mean=0.1206 stddev=0.1078 nonzero_ratio=1.0000 p95=0.2360 entropy=2.7976 norm_entropy=0.6727	
phero_food	baseline_step000200_phero_food.csv	min=0.0000 max=0.1600 mean=0.0379 stddev=0.0148 nonzero_ratio=0.9992 p95=0.0650 entropy=3.0922 norm_entropy=0.7435	
phero_danger	baseline_step000200_phero_danger.csv	min=0.0000 max=0.1120 mean=0.0002 stddev=0.0016 nonzero_ratio=0.0754 p95=0.0010 entropy=0.2017 norm_entropy=0.0485	
molecules	baseline_step000200_molecules.csv	min=0.0000 max=0.0300 mean=0.0010 stddev=0.0022 nonzero_ratio=0.3828 p95=0.0060 entropy=1.2605 norm_entropy=0.3031	

mycel	baseline_step000200_mycel.csv	min=0.0000 max=0.1370 mean=0.0167 stddev=0.0157 nonzero_ratio=0.9958 p95=0.0470 entropy=3.0261 norm_entropy=0.7276	
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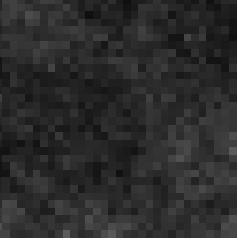
Step 250

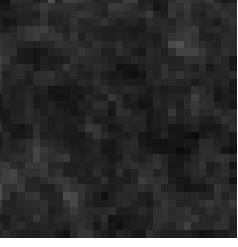
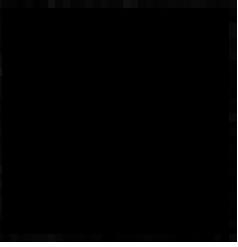
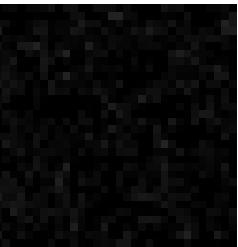
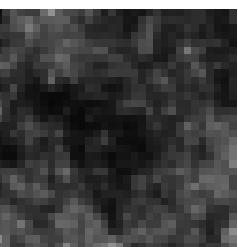
Field	CSV	Stats	Preview
resources	baseline_step000250_resources.csv	min=0.0020 max=1.0000 mean=0.1379 stddev=0.1124 nonzero_ratio=1.0000 p95=0.2770 entropy=2.9597 norm_entropy=0.7117	
phero_food	baseline_step000250_phero_food.csv	min=0.0000 max=0.1910 mean=0.0397 stddev=0.0146 nonzero_ratio=0.9995 p95=0.0670 entropy=2.9314 norm_entropy=0.7048	
phero_danger	baseline_step000250_phero_danger.csv	min=0.0000 max=0.0410 mean=0.0002 stddev=0.0015 nonzero_ratio=0.0734 p95=0.0010 entropy=0.3907 norm_entropy=0.0940	
molecules	baseline_step000250_molecules.csv	min=0.0000 max=0.0220 mean=0.0010 stddev=0.0023 nonzero_ratio=0.3983 p95=0.0060 entropy=1.2884 norm_entropy=0.3098	
mycel	baseline_step000250_mycel.csv	min=0.0010 max=0.1470 mean=0.0249 stddev=0.0176 nonzero_ratio=1.0000 p95=0.0580 entropy=3.2340 norm_entropy=0.7776	

Step 300

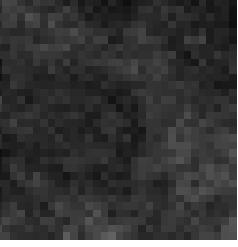
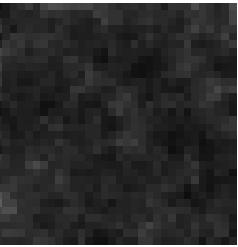
Field	CSV	Stats	Preview
resources	baseline_step000300_resources.csv	min=0.0020 max=1.0000 mean=0.1540 stddev=0.1156 nonzero_ratio=1.0000 p95=0.3100 entropy=3.0679 norm_entropy=0.7377	
phero_food	baseline_step000300_phero_food.csv	min=0.0000 max=0.1860 mean=0.0408 stddev=0.0152 nonzero_ratio=0.9995 p95=0.0680 entropy=2.9818 norm_entropy=0.7170	
phero_danger	baseline_step000300_phero_danger.csv	min=0.0000 max=0.0600 mean=0.0003 stddev=0.0016 nonzero_ratio=0.0774 p95=0.0010 entropy=0.4136 norm_entropy=0.0994	
molecules	baseline_step000300_molecules.csv	min=0.0000 max=0.0270 mean=0.0011 stddev=0.0023 nonzero_ratio=0.3947 p95=0.0060 entropy=1.2959 norm_entropy=0.3116	
mycel	baseline_step000300_mycel.csv	min=0.0020 max=0.1630 mean=0.0362 stddev=0.0209 nonzero_ratio=1.0000 p95=0.0740 entropy=3.4053 norm_entropy=0.8188	

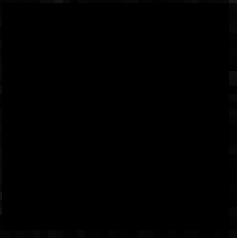
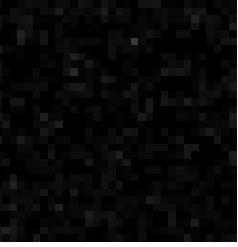
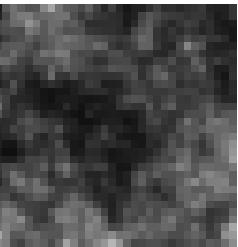
Step 350

Field	CSV	Stats	Preview
resources	baseline_step000350_resources.csv	min=0.0020 max=1.0000 mean=0.1695 stddev=0.1189 nonzero_ratio=1.0000 p95=0.3350 entropy=3.1656 norm_entropy=0.7612	

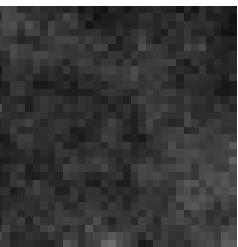
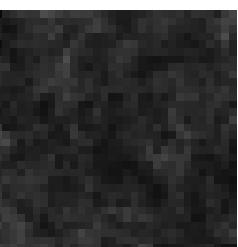
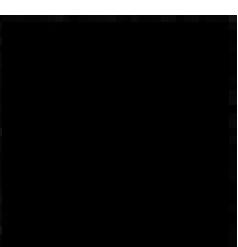
phero_food	baseline_step000350_phero_food.csv	min=0.0000 max=0.2810 mean=0.0414 stddev=0.0158 nonzero_ratio=0.9997 p95=0.0710 entropy=2.5975 norm_entropy=0.6246	
phero_danger	baseline_step000350_phero_danger.csv	min=0.0000 max=0.0550 mean=0.0003 stddev=0.0016 nonzero_ratio=0.0871 p95=0.0010 entropy=0.4514 norm_entropy=0.1085	
molecules	baseline_step000350_molecules.csv	min=0.0000 max=0.0230 mean=0.0011 stddev=0.0023 nonzero_ratio=0.4025 p95=0.0060 entropy=1.3044 norm_entropy=0.3136	
mycel	baseline_step000350_mycel.csv	min=0.0040 max=0.1880 mean=0.0498 stddev=0.0253 nonzero_ratio=1.0000 p95=0.0950 entropy=3.5115 norm_entropy=0.8443	

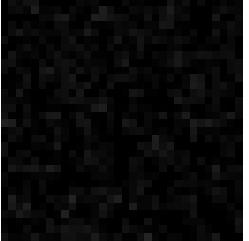
Step 400

Field	CSV	Stats	Preview
resources	baseline_step000400_resources.csv	min=0.0020 max=1.0000 mean=0.1846 stddev=0.1233 nonzero_ratio=1.0000 p95=0.3600 entropy=3.2413 norm_entropy=0.7794	
phero_food	baseline_step000400_phero_food.csv	min=0.0000 max=0.2070 mean=0.0418 stddev=0.0159 nonzero_ratio=0.9998 p95=0.0710 entropy=2.8929 norm_entropy=0.6956	

phero_danger	baseline_step000400_phero_danger.csv	min=0.0000 max=0.0910 mean=0.0003 stddev=0.0018 nonzero_ratio=0.0887 p95=0.0010 entropy=0.2626 norm_entropy=0.0631	
molecules	baseline_step000400_molecules.csv	min=0.0000 max=0.0240 mean=0.0011 stddev=0.0024 nonzero_ratio=0.3920 p95=0.0060 entropy=1.2963 norm_entropy=0.3117	
mycel	baseline_step000400_mycel.csv	min=0.0110 max=0.2150 mean=0.0656 stddev=0.0300 nonzero_ratio=1.0000 p95=0.1190 entropy=3.5907 norm_entropy=0.8634	

Step 450

Field	CSV	Stats	Preview
resources	baseline_step000450_resources.csv	min=0.0020 max=1.0000 mean=0.1992 stddev=0.1268 nonzero_ratio=1.0000 p95=0.3950 entropy=3.3119 norm_entropy=0.7964	
phero_food	baseline_step000450_phero_food.csv	min=0.0000 max=0.2360 mean=0.0421 stddev=0.0160 nonzero_ratio=0.9997 p95=0.0720 entropy=2.7824 norm_entropy=0.6690	
phero_danger	baseline_step000450_phero_danger.csv	min=0.0000 max=0.0420 mean=0.0003 stddev=0.0016 nonzero_ratio=0.0927 p95=0.0010 entropy=0.4734 norm_entropy=0.1138	

molecules	<u>baseline_step000450_molecules.csv</u>	min=0.0000 max=0.0400 mean=0.0011 stddev=0.0023 nonzero_ratio=0.4005 p95=0.0060 entropy=1.3119 norm_entropy=0.3154	
mycel	<u>baseline_step000450_mycel.csv</u>	min=0.0190 max=0.2420 mean=0.0831 stddev=0.0348 nonzero_ratio=1.0000 p95=0.1460 entropy=3.6483 norm_entropy=0.8772	