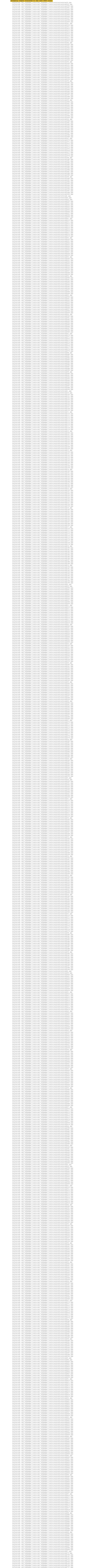
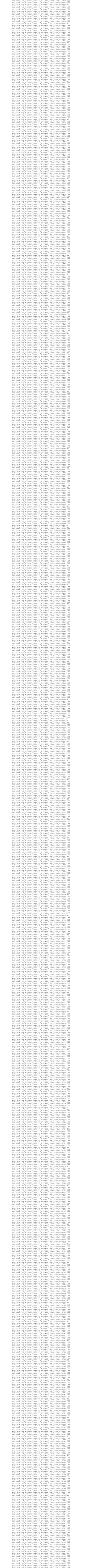
	<pre>import torch import torchvision import numpy as np import matplotlib.pyplot as plt import torch.nn as nn import torch.nn.functional as F from torchvision.transforms import ToTensor from torchvision.utils import make_grid from torch.utils.data.dataloader import DataLoader from torch.utils.data import random_split import os from torchvision datasets import ImageFolder</pre>
In [7]:	<pre>import os from torchvision.datasets import ImageFolder import torchvision.transforms as tt from tqdm import tqdm from torch.utils.data.dataloader import DataLoader import torch.nn as nn import torch.nn.functional as F import matplotlib.pyplot as plt %matplotlib inline ! pip install -q kaggle from google.colab import files files.upload() ! mkdir ~/.kaggle ! op kaggle.json ~/.kaggle/</pre>
	! cp kaggle.json ~/.kaggle/ ! chmod 600 ~/.kaggle/kaggle.json Choose Files No file chosen Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable. Saving kaggle.json to kaggle.json ! kaggle datasets download grassknoted/asl-alphabet ! unzip asl-alphabet.zip

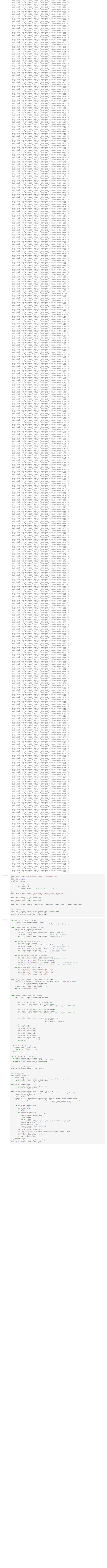












2%| | 36/2175 [00:01<01:34, 22.69it/s] 2%|| | 39/2175 [00:01<01:34, 22.54it/s] 2%| | 42/2175 [00:01<01:34, 22.69it/s] 2%|| | 45/2175 [00:01<01:33, 22.77it/s] 2%| | 48/2175 [00:02<01:34, 22.62it/s] 2%| | 51/2175 [00:02<01:34, 22.44it/s] 2%| | 54/2175 [00:02<01:35, 22.12it/s] 3%| | 57/2175 [00:02<01:35, 22.22it/s] 3%| | 60/2175 [00:02<01:34, 22.29it/s] 3%|| | 63/2175 [00:02<01:34, 22.36it/s] 3%| | 69/2175 [00:03<01:32, 22.65it/s] 3%|| | 72/2175 [00:03<01:32, 22.73it/s] 3%|| | 75/2175 [00:03<01:33, 22.50it/s] 4%| | 78/2175 [00:03<01:34, 22.21it/s] 4%| | 81/2175 [00:03<01:33, 22.28it/s] 4%| | 90/2175 [00:04<01:32, 22.45it/s] 4%| | 93/2175 [00:04<01:32, 22.40it/s] 4%| | 96/2175 [00:04<01:32, 22.42it/s] 5%| | 99/2175 [00:04<01:32, 22.34it/s] 5%| | 102/2175 [00:04<01:32, 22.52it/s] 5%| | 105/2175 [00:04<01:31, 22.62it/s] 5%| | 108/2175 [00:04<01:32, 22.35it/s] 5%| | | 111/2175 [00:04<01:31, 22.48it/s] 5%| | | 114/2175 [00:05<01:31, 22.60it/s] 5%| | | 117/2175 [00:05<01:31, 22.55it/s] 6%| | 120/2175 [00:05<01:32, 22.31it/s] 6%| | 123/2175 [00:05<01:32, 22.22it/s] 6%| | | 126/2175 [00:05<01:31, 22.38it/s] 6%| | | 129/2175 [00:05<01:31, 22.33it/s] 6%| | | 132/2175 [00:05<01:32, 22.14it/s] 6%| | | 135/2175 [00:06<01:30, 22.43it/s] 6%| | | 138/2175 [00:06<01:31, 22.35it/s] 6%| | 141/2175 [00:06<01:33, 21.81it/s] 7%| | | 144/2175 [00:06<01:33, 21.76it/s] 7%| | 147/2175 [00:06<01:32, 21.84it/s] 7%| | | | 150/2175 [00:06<01:31, 22.08it/s] 7%| | | 153/2175 [00:06<01:30, 22.30it/s] 7%| | | | 156/2175 [00:06<01:29, 22.50it/s] 7%| | | | 159/2175 [00:07<01:31, 22.09it/s] 7%| | | 162/2175 [00:07<01:30, 22.31it/s] 8%| | | | 165/2175 [00:07<01:30, 22.22it/s] 8%| | | 183/2175 [00:08<01:28, 22.58it/s] 9%| | 186/2175 [00:08<01:28, 22.54it/s] 9%| | | 189/2175 [00:08<01:29, 22.21it/s] 9%| | 192/2175 [00:08<01:28, 22.38it/s] 9%| | 195/2175 [00:08<01:27, 22.58it/s] 9%| | | 198/2175 [00:08<01:28, 22.31it/s] 9%| | 201/2175 [00:08<01:28, 22.25it/s] 9%| | | 204/2175 [00:09<01:30, 21.84it/s] 10%| | 207/2175 [00:09<01:29, 22.09it/s] 10%| | 210/2175 [00:09<01:28, 22.26it/s] 10%| | 213/2175 [00:09<01:28, 22.21it/s] 10%| | 216/2175 [00:09<01:27, 22.50it/s] 10%| | 219/2175 [00:09<01:26, 22.52it/s] 10%| | 222/2175 [00:09<01:26, 22.46it/s] 10%| | 225/2175 [00:10<01:27, 22.37it/s] 10%| | 228/2175 [00:10<01:26, 22.44it/s] 11%| | 240/2175 [00:10<01:26, 22.24it/s] 11%| | 243/2175 [00:10<01:26, 22.23it/s] 11%| | 246/2175 [00:10<01:26, 22.38it/s] 11%| | 249/2175 [00:11<01:25, 22.54it/s] 12%| | | 252/2175 [00:11<01:25, 22.54it/s] 12%| | | 255/2175 [00:11<01:24, 22.62it/s] 12%| | | 258/2175 [00:11<01:25, 22.42it/s] 12%| | | 261/2175 [00:11<01:25, 22.43it/s] 12%| | | 264/2175 [00:11<01:24, 22.65it/s] 12%| | | 267/2175 [00:11<01:24, 22.60it/s] 12%| | 270/2175 [00:12<01:23, 22.82it/s] 13%| | 273/2175 [00:12<01:23, 22.78it/s] 13%| | | 282/2175 [00:12<01:24, 22.29it/s] 13%| | 285/2175 [00:12<01:24, 22.50it/s] 13%| | 291/2175 [00:12<01:24, 22.33it/s] 14%| | | 294/2175 [00:13<01:25, 22.09it/s] 15%| | 318/2175 [00:14<01:22, 22.44it/s] 15%| | 327/2175 [00:14<01:23, 22.16it/s] 16%| | 342/2175 [00:15<01:21, 22.38it/s] 16%| | 345/2175 [00:15<01:21, 22.41it/s] 16%| | 348/2175 [00:15<01:23, 21.96it/s] 16%| | 354/2175 [00:15<01:21, 22.23it/s] 17%| | 375/2175 [00:16<01:19, 22.64it/s] 18%| | 390/2175 [00:17<01:19, 22.34it/s] 18%| | 393/2175 [00:17<01:20, 22.10it/s] 18%| | 396/2175 [00:17<01:20, 22.18it/s] 18%| | 399/2175 [00:17<01:19, 22.23it/s] 18%| | 402/2175 [00:17<01:19, 22.36it/s] 19%| | 405/2175 [00:18<01:19, 22.28it/s] 19%| | 408/2175 [00:18<01:20, 21.83it/s] 19%| | 411/2175 [00:18<01:20, 21.96it/s] 19%| | 414/2175 [00:18<01:20, 21.94it/s] 19%| | 417/2175 [00:18<01:20, 21.84it/s]

Streaming output truncated to the last 5000 lines. 2%| | 33/2175 [00:01<01:35, 22.49it/s]

20%| | 426/2175 [00:19<01:18, 22.38it/s] 20%| | 429/2175 [00:19<01:17, 22.43it/s] 20%| | 432/2175 [00:19<01:17, 22.58it/s] 20%| | 435/2175 [00:19<01:18, 22.04it/s] 20%| 438/2175 [00:19<01:19, 21.94it/s] 20%| | 441/2175 [00:19<01:17, 22.26it/s] 20%| | 444/2175 [00:19<01:17, 22.48it/s] 21%| | 447/2175 [00:19<01:16, 22.46it/s] 21%| 450/2175 [00:20<01:17, 22.20it/s] 21%| | 453/2175 [00:20<01:17, 22.36it/s] 21%| 456/2175 [00:20<01:16, 22.38it/s] 21%| | 459/2175 [00:20<01:17, 22.26it/s] 21%| | 462/2175 [00:20<01:17, 22.11it/s] 22%| | | 477/2175 [00:21<01:15, 22.49it/s] 22%| | 480/2175 [00:21<01:14, 22.64it/s] 22%| | 483/2175 [00:21<01:15, 22.52it/s] 23%| | 492/2175 [00:21<01:14, 22.65it/s] 23%| | 495/2175 [00:22<01:15, 22.23it/s] 23%| | 498/2175 [00:22<01:15, 22.20it/s] 25%| | 543/2175 [00:24<01:13, 22.27it/s] 25%| | 546/2175 [00:24<01:12, 22.39it/s] 26%| | 576/2175 [00:25<01:12, 22.14it/s] 27%| | 579/2175 [00:25<01:11, 22.40it/s] 28%| | 600/2175 [00:26<01:11, 22.03it/s] 28%| | | 606/2175 [00:27<01:10, 22.27it/s] 28%| | 609/2175 [00:27<01:11, 21.99it/s] 28%| | 612/2175 [00:27<01:10, 22.23it/s] 28%| | 615/2175 [00:27<01:09, 22.34it/s] 28%| | 618/2175 [00:27<01:09, 22.27it/s] 29%| | 621/2175 [00:27<01:10, 22.12it/s] 29%| | 624/2175 [00:27<01:09, 22.33it/s] 29%| | 627/2175 [00:28<01:10, 22.04it/s] 29%| | 630/2175 [00:28<01:10, 22.07it/s] 29%| | 633/2175 [00:28<01:09, 22.05it/s] 29%| | 636/2175 [00:28<01:09, 22.21it/s] 29%| | 639/2175 [00:28<01:08, 22.40it/s] 30%| | 642/2175 [00:28<01:09, 22.11it/s] 30%| | 645/2175 [00:28<01:09, 22.11it/s] 30%| | 648/2175 [00:29<01:08, 22.16it/s] 30%| | 651/2175 [00:29<01:08, 22.14it/s] 30%| | 654/2175 [00:29<01:08, 22.31it/s] 30%| | 657/2175 [00:29<01:08, 22.23it/s] 30%| | 660/2175 [00:29<01:07, 22.42it/s] 31%| | 672/2175 [00:30<01:08, 21.82it/s] 31%| | 675/2175 [00:30<01:09, 21.43it/s] 31%| | 678/2175 [00:30<01:09, 21.54it/s] 31%| | 681/2175 [00:30<01:10, 21.05it/s] 32%| | 690/2175 [00:30<01:09, 21.33it/s] 32%| | 696/2175 [00:31<01:10, 21.02it/s] 32%| | 699/2175 [00:31<01:10, 21.02it/s] 32%| | 702/2175 [00:31<01:09, 21.29it/s] 32%| | 705/2175 [00:31<01:07, 21.74it/s] 33%| | 708/2175 [00:31<01:07, 21.60it/s] 33%| | 711/2175 [00:31<01:07, 21.73it/s] 33%| | 714/2175 [00:32<01:06, 21.93it/s] 33%| | 717/2175 [00:32<01:06, 22.00it/s] 33%| | 720/2175 [00:32<01:06, 22.02it/s] 33%| | 723/2175 [00:32<01:05, 22.03it/s] 33%| | 726/2175 [00:32<01:05, 22.17it/s] 34%| | 729/2175 [00:32<01:05, 22.09it/s] 34%| | 732/2175 [00:32<01:06, 21.80it/s] 34%| | 735/2175 [00:33<01:05, 21.94it/s] 34%| | 738/2175 [00:33<01:06, 21.72it/s] 34%| | 741/2175 [00:33<01:06, 21.67it/s] 34%| | 744/2175 [00:33<01:05, 21.88it/s] 34%| | 747/2175 [00:33<01:05, 21.78it/s] 35%| | | 762/2175 [00:34<01:04, 21.86it/s] 35%| | 765/2175 [00:34<01:04, 21.91it/s] 35%| | 768/2175 [00:34<01:04, 21.90it/s] 35%| 771/2175 [00:34<01:04, 21.76it/s] 36%| | 774/2175 [00:34<01:04, 21.77it/s] 36%| | 777/2175 [00:34<01:04, 21.70it/s] 36%| | 780/2175 [00:35<01:05, 21.43it/s] 36%| | 783/2175 [00:35<01:04, 21.59it/s] 36%| | 786/2175 [00:35<01:03, 21.76it/s] 36%| | | 789/2175 [00:35<01:03, 21.73it/s] 36%| | 792/2175 [00:35<01:03, 21.66it/s] 37%| | 795/2175 [00:35<01:02, 21.96it/s] 37%| | 798/2175 [00:35<01:03, 21.82it/s]

19%| | 420/2175 [00:18<01:19, 22.15it/s]

19%| | 423/2175 [00:18<01:18, 22.37it/s]

37%| | 807/2175 [00:36<01:02, 21.83it/s] 37%| | 810/2175 [00:36<01:02, 21.77it/s] 37%| | 813/2175 [00:36<01:02, 21.76it/s] 38%| | | 822/2175 [00:37<01:04, 20.97it/s] 38%| | 837/2175 [00:37<01:01, 21.73it/s] 39%| | 840/2175 [00:37<01:01, 21.77it/s] 39%| | 843/2175 [00:38<01:01, 21.63it/s] 39%| | 846/2175 [00:38<01:01, 21.68it/s] 40%| | 861/2175 [00:38<00:58, 22.28it/s] 40%| | | 864/2175 [00:38<00:59, 22.12it/s] 40%| | 867/2175 [00:39<00:58, 22.28it/s] 40%| | 870/2175 [00:39<00:59, 22.07it/s] 40%| | 873/2175 [00:39<00:58, 22.15it/s] 40%| | 876/2175 [00:39<00:58, 22.21it/s] 40%| | 879/2175 [00:39<00:58, 22.11it/s] 41%| | 891/2175 [00:40<01:01, 20.99it/s] 41%| | 894/2175 [00:40<01:00, 21.17it/s] 41%| | 897/2175 [00:40<01:00, 21.26it/s] 41%| 900/2175 [00:40<00:59, 21.53it/s] 42%| | 903/2175 [00:40<00:58, 21.82it/s] 42%| | 906/2175 [00:40<00:58, 21.64it/s] 42%| | 909/2175 [00:41<00:59, 21.40it/s] 42%| | 912/2175 [00:41<00:58, 21.68it/s] 42%| | 915/2175 [00:41<00:57, 21.85it/s] 42%| | 918/2175 [00:41<00:57, 22.03it/s] 42%| | 921/2175 [00:41<00:56, 22.15it/s] 42%| | 924/2175 [00:41<00:56, 22.20it/s] 43%| | 927/2175 [00:41<00:56, 22.26it/s] 43%| | 930/2175 [00:41<00:56, 21.92it/s] 43%| | 933/2175 [00:42<00:56, 22.07it/s] 43%| | 936/2175 [00:42<00:56, 22.00it/s] 43%| | 939/2175 [00:42<00:56, 22.03it/s] 43%| | 942/2175 [00:42<00:55, 22.24it/s] 43%| | 945/2175 [00:42<00:54, 22.44it/s] 44%| | 948/2175 [00:42<00:54, 22.35it/s] 44%| | 951/2175 [00:42<00:54, 22.32it/s] 44%| | 954/2175 [00:43<00:55, 22.07it/s] 44%| | 957/2175 [00:43<00:55, 21.77it/s] 44%| | | 960/2175 [00:43<00:55, 21.95it/s] 44%| | 963/2175 [00:43<00:54, 22.12it/s] 44%| | 966/2175 [00:43<00:54, 22.22it/s] 45%| | 969/2175 [00:43<00:54, 22.08it/s] 45%| | 972/2175 [00:43<00:54, 22.20it/s] 45%| | 975/2175 [00:44<00:55, 21.79it/s] 45%| | 978/2175 [00:44<00:54, 21.96it/s] 45%| | 981/2175 [00:44<00:54, 21.84it/s] 45%| 984/2175 [00:44<00:54, 22.00it/s] 45%| | 987/2175 [00:44<00:53, 22.07it/s] 46%| 990/2175 [00:44<00:53, 22.13it/s] 46%| 993/2175 [00:44<00:53, 22.22it/s] 46%| 996/2175 [00:44<00:54, 21.79it/s] 46%| 999/2175 [00:45<00:54, 21.64it/s] 46%| | 1002/2175 [00:45<00:54, 21.48it/s] 46%| | 1005/2175 [00:45<00:53, 21.78it/s] 46%| | 1008/2175 [00:45<00:54, 21.53it/s] 46%| | 1011/2175 [00:45<00:53, 21.65it/s] 47%| | 1014/2175 [00:45<00:52, 21.99it/s] 47%| | 1017/2175 [00:45<00:52, 22.13it/s] 47%| | 1020/2175 [00:46<00:52, 21.98it/s] 47%| | 1023/2175 [00:46<00:52, 21.92it/s] 47%| | 1026/2175 [00:46<00:51, 22.12it/s] 47%| | 1029/2175 [00:46<00:52, 21.83it/s] 47%| | 1032/2175 [00:46<00:52, 21.93it/s] 48%| | 1035/2175 [00:46<00:51, 21.95it/s] 48%| | 1038/2175 [00:46<00:51, 22.04it/s] 48%| | 1041/2175 [00:47<00:51, 21.87it/s] 48%| | 1044/2175 [00:47<00:52, 21.59it/s] 48%| | 1047/2175 [00:47<00:51, 21.81it/s] 48%| | 1050/2175 [00:47<00:51, 21.76it/s] 48%| | 1053/2175 [00:47<00:51, 21.95it/s] 49%| | 1056/2175 [00:47<00:50, 22.13it/s] 49%| | 1059/2175 [00:47<00:49, 22.35it/s] 49%| | 1062/2175 [00:47<00:49, 22.33it/s] 49%| | 1065/2175 [00:48<00:50, 22.09it/s] 49%| | 1068/2175 [00:48<00:50, 22.07it/s] 49%| | 1071/2175 [00:48<00:50, 22.04it/s] 49%| | 1074/2175 [00:48<00:50, 21.78it/s] 50%| | 1077/2175 [00:48<00:50, 21.79it/s] 50%| | 1080/2175 [00:48<00:49, 21.95it/s] 50%| | 1083/2175 [00:48<00:49, 21.89it/s] 50%| | 1086/2175 [00:49<00:50, 21.60it/s] 50%| | 1089/2175 [00:49<00:50, 21.48it/s] 50%| | 1092/2175 [00:49<00:49, 21.71it/s] 50%| | 1095/2175 [00:49<00:49, 21.93it/s] 50%| | 1098/2175 [00:49<00:48, 22.13it/s] 51%| | 1101/2175 [00:49<00:49, 21.90it/s] 51%| | 1104/2175 [00:49<00:48, 22.03it/s] 51%| | 1107/2175 [00:50<00:48, 22.06it/s] 51%| | 1110/2175 [00:50<00:49, 21.47it/s] 51%| | 1113/2175 [00:50<00:49, 21.38it/s] 51%| | 1116/2175 [00:50<00:49, 21.54it/s] 51%| | 1119/2175 [00:50<00:50, 21.11it/s] 52%| | 1122/2175 [00:50<00:48, 21.50it/s] 52%| | 1125/2175 [00:50<00:48, 21.75it/s] 52%| | 1128/2175 [00:51<00:47, 21.97it/s] 52%| | 1131/2175 [00:51<00:47, 21.83it/s] 52%| | 1134/2175 [00:51<00:47, 21.93it/s] 52%| | 1137/2175 [00:51<00:47, 21.90it/s] 52%| | 1140/2175 [00:51<00:46, 22.04it/s] 53%| | 1143/2175 [00:51<00:46, 22.19it/s] 53%| | 1146/2175 [00:51<00:46, 22.23it/s] 53%| | 1149/2175 [00:51<00:46, 22.26it/s] 53%| | 1152/2175 [00:52<00:45, 22.34it/s] 53%| | 1155/2175 [00:52<00:46, 21.92it/s] 53%| | | 1158/2175 [00:52<00:46, 22.08it/s] 53%| | 1161/2175 [00:52<00:45, 22.15it/s] 54%| | 1164/2175 [00:52<00:45, 22.20it/s] 54%| | 1167/2175 [00:52<00:45, 22.33it/s] 54%| | 1170/2175 [00:52<00:44, 22.47it/s] 54%| | 1173/2175 [00:53<00:44, 22.37it/s] 54%| | 1176/2175 [00:53<00:45, 21.96it/s] 54%| | 1179/2175 [00:53<00:45, 22.06it/s] 54%| | 1182/2175 [00:53<00:44, 22.28it/s] 54%| | 1185/2175 [00:53<00:44, 22.30it/s] 55%| | 1188/2175 [00:53<00:44, 22.21it/s]

37%| | 804/2175 [00:36<01:02, 21.83it/s]

55%| | 1197/2175 [00:54<00:44, 21.74it/s] 55%| | 1200/2175 [00:54<00:45, 21.51it/s] 55%| | 1203/2175 [00:54<00:44, 21.75it/s] 55%| | 1206/2175 [00:54<00:44, 21.73it/s] 56%| | 1209/2175 [00:54<00:44, 21.84it/s] 56%| | 1212/2175 [00:54<00:43, 21.97it/s] 56%| | 1215/2175 [00:54<00:44, 21.72it/s] 56%| | 1218/2175 [00:55<00:44, 21.58it/s] 56%| | 1221/2175 [00:55<00:44, 21.28it/s] 56%| | 1224/2175 [00:55<00:44, 21.45it/s] 56%| | 1227/2175 [00:55<00:44, 21.42it/s] 57%| | | 1230/2175 [00:55<00:44, 21.47it/s] 57%| | | 1233/2175 [00:55<00:43, 21.61it/s] 57%| | | 1236/2175 [00:55<00:42, 21.91it/s] 57%| | | 1239/2175 [00:56<00:42, 22.01it/s] 57%| | | 1242/2175 [00:56<00:42, 21.80it/s] 57%| | 1245/2175 [00:56<00:43, 21.47it/s] 57%| | | 1248/2175 [00:56<00:42, 21.67it/s] 58%| | 1251/2175 [00:56<00:43, 21.47it/s] 58%| | 1254/2175 [00:56<00:42, 21.60it/s] 58%| | | 1257/2175 [00:56<00:42, 21.77it/s] 58%| | 1260/2175 [00:57<00:41, 21.80it/s] 58%| | | 1263/2175 [00:57<00:41, 21.90it/s] 58%| | | 1266/2175 [00:57<00:41, 21.72it/s] 58%| | | 1269/2175 [00:57<00:41, 21.68it/s] 58%| | | 1272/2175 [00:57<00:42, 21.50it/s] 59%| | | 1275/2175 [00:57<00:41, 21.65it/s] 59%| | 1278/2175 [00:57<00:41, 21.76it/s] 59%| | | 1281/2175 [00:58<00:40, 21.93it/s] 59%| | 1284/2175 [00:58<00:41, 21.69it/s] 59%| | 1287/2175 [00:58<00:41, 21.58it/s] 59%| | 1290/2175 [00:58<00:40, 21.85it/s] 59%| | 1293/2175 [00:58<00:40, 22.01it/s] 60%| | 1296/2175 [00:58<00:39, 22.24it/s] 60%| | 1299/2175 [00:58<00:39, 22.28it/s] 60%| | 1302/2175 [00:58<00:39, 22.31it/s] 60%| | 1305/2175 [00:59<00:39, 22.23it/s] 60%| | 1308/2175 [00:59<00:39, 22.00it/s] 60%| | 1311/2175 [00:59<00:39, 21.96it/s] 60%| | 1314/2175 [00:59<00:39, 21.86it/s] 61%| | 1317/2175 [00:59<00:39, 21.98it/s] 61%| | 1320/2175 [00:59<00:38, 21.99it/s] 61%| | 1323/2175 [00:59<00:38, 22.07it/s] 61%| | 1326/2175 [01:00<00:38, 22.13it/s] 61%| | 1329/2175 [01:00<00:38, 22.01it/s] 61%| | 1332/2175 [01:00<00:39, 21.59it/s] 61%| | 1335/2175 [01:00<00:38, 21.65it/s] 62%| | 1338/2175 [01:00<00:38, 21.70it/s] 62%| | 1341/2175 [01:00<00:38, 21.75it/s] 62%| | 1344/2175 [01:00<00:38, 21.81it/s] 62%| | 1347/2175 [01:01<00:38, 21.48it/s] 62%| | 1350/2175 [01:01<00:38, 21.31it/s] 62%| | 1353/2175 [01:01<00:38, 21.13it/s] 62%| | 1356/2175 [01:01<00:38, 21.21it/s] 62%| | 1359/2175 [01:01<00:38, 21.21it/s] 63%| | 1362/2175 [01:01<00:38, 21.04it/s] 63%| | 1365/2175 [01:01<00:38, 21.02it/s] 63%| | 1368/2175 [01:02<00:38, 21.07it/s] 63%| | 1371/2175 [01:02<00:38, 21.02it/s] 63%| | 1374/2175 [01:02<00:38, 20.64it/s] 63%| | 1377/2175 [01:02<00:39, 20.37it/s] 63%| | 1380/2175 [01:02<00:38, 20.43it/s] 64%| | 1383/2175 [01:02<00:37, 20.94it/s] 64%| | | 1386/2175 [01:02<00:37, 21.23it/s] 64%| | 1389/2175 [01:03<00:36, 21.40it/s] 64%| | 1392/2175 [01:03<00:36, 21.51it/s] 64%| | 1395/2175 [01:03<00:36, 21.53it/s] 64%| | 1398/2175 [01:03<00:36, 21.25it/s] 64%| | 1401/2175 [01:03<00:36, 21.18it/s] 65%| | 1404/2175 [01:03<00:36, 21.38it/s] 65%| | 1407/2175 [01:03<00:35, 21.55it/s] 65%| | 1410/2175 [01:04<00:35, 21.62it/s] 65%| | 1413/2175 [01:04<00:35, 21.53it/s] 65%| | 1416/2175 [01:04<00:35, 21.57it/s] 65%| | 1419/2175 [01:04<00:35, 21.32it/s] 65%| | 1422/2175 [01:04<00:35, 21.46it/s] 66%| | 1425/2175 [01:04<00:35, 21.43it/s] 66%| | 1428/2175 [01:04<00:34, 21.59it/s] 66%| | 1431/2175 [01:04<00:34, 21.82it/s] 66%| | 1434/2175 [01:05<00:34, 21.69it/s] 66%| | 1437/2175 [01:05<00:34, 21.63it/s] 66%| | 1440/2175 [01:05<00:34, 21.48it/s] 66%| | 1443/2175 [01:05<00:34, 21.44it/s] 66%| | 1446/2175 [01:05<00:33, 21.53it/s] 67%| | 1449/2175 [01:05<00:33, 21.57it/s] 67%| | 1452/2175 [01:05<00:33, 21.69it/s] 67%| | 1455/2175 [01:06<00:33, 21.78it/s] 67%| | 1458/2175 [01:06<00:33, 21.37it/s] 67%| | 1461/2175 [01:06<00:33, 21.34it/s] 67%| | 1464/2175 [01:06<00:33, 20.98it/s] 67%| | 1467/2175 [01:06<00:33, 21.13it/s] 68%| | 1470/2175 [01:06<00:33, 21.35it/s] 68%| | 1473/2175 [01:06<00:32, 21.51it/s] 68%| | 1476/2175 [01:07<00:32, 21.76it/s] 68%| | 1479/2175 [01:07<00:32, 21.53it/s] 68%| | 1482/2175 [01:07<00:32, 21.59it/s] 68%| | 1485/2175 [01:07<00:32, 21.47it/s] 68%| | 1488/2175 [01:07<00:31, 21.60it/s] 69%| | 1491/2175 [01:07<00:31, 21.69it/s] 69%| | 1494/2175 [01:07<00:31, 21.89it/s] 69%| | 1497/2175 [01:08<00:30, 21.91it/s] 69%| | | 1500/2175 [01:08<00:31, 21.74it/s] 69%| | | 1503/2175 [01:08<00:30, 21.77it/s] 69%| | | 1506/2175 [01:08<00:31, 21.56it/s] 69%| | | 1509/2175 [01:08<00:30, 21.49it/s] 70%| | | 1512/2175 [01:08<00:30, 21.60it/s] 70%| | | 1515/2175 [01:08<00:30, 21.83it/s] 70%| | | 1518/2175 [01:09<00:30, 21.82it/s] 70%| | | 1521/2175 [01:09<00:29, 21.94it/s] 70%| | | 1524/2175 [01:09<00:29, 21.83it/s] 70%| | | 1527/2175 [01:09<00:29, 21.97it/s] 70%| | | 1530/2175 [01:09<00:31, 20.79it/s] 70%| | | 1533/2175 [01:09<00:30, 21.17it/s] 71%| | | 1548/2175 [01:10<00:28, 21.85it/s] 71%| | | 1551/2175 [01:10<00:28, 21.59it/s] 71%| | | 1554/2175 [01:10<00:28, 21.46it/s] 72%| | | 1557/2175 [01:10<00:28, 21.39it/s] 72%| | | 1560/2175 [01:10<00:28, 21.48it/s] 72%| | | 1563/2175 [01:11<00:28, 21.26it/s] 72%| | | 1566/2175 [01:11<00:28, 21.36it/s] 72%| | | 1569/2175 [01:11<00:28, 21.13it/s] 72%| | 1572/2175 [01:11<00:28, 21.09it/s]

55%| | 1191/2175 [00:53<00:44, 22.05it/s]

55%| | 1194/2175 [00:53<00:44, 22.14it/s]

73%| | | 1578/2175 [01:11<00:27, 21.50it/s] 73%| | | 1581/2175 [01:11<00:27, 21.80it/s] 73%| | | 1584/2175 [01:12<00:26, 21.91it/s] 73%| | | 1587/2175 [01:12<00:26, 21.95it/s] 73%| | | 1590/2175 [01:12<00:26, 22.05it/s] 73%| | | 1596/2175 [01:12<00:26, 21.71it/s] 74%| | | 1599/2175 [01:12<00:26, 21.88it/s] 74%| | 1602/2175 [01:12<00:25, 22.04it/s] 74%| | 1605/2175 [01:13<00:25, 22.03it/s] 74%| | 1608/2175 [01:13<00:25, 22.03it/s] 74%| | 1611/2175 [01:13<00:26, 21.58it/s] 74%| | 1614/2175 [01:13<00:25, 21.86it/s] 74%| | 1617/2175 [01:13<00:26, 21.19it/s] 74%| | 1620/2175 [01:13<00:25, 21.51it/s] 75%| | | 1623/2175 [01:13<00:25, 21.81it/s] 75%| | | 1626/2175 [01:14<00:24, 22.03it/s] 75%| | 1629/2175 [01:14<00:24, 22.01it/s] 75%| | | 1632/2175 [01:14<00:24, 21.82it/s] 75%| | | 1635/2175 [01:14<00:24, 21.91it/s] 75%| | | 1638/2175 [01:14<00:24, 21.66it/s] 75%| | | 1641/2175 [01:14<00:24, 21.74it/s] 76%| | | 1644/2175 [01:14<00:24, 21.88it/s] 76%| | | 1647/2175 [01:14<00:23, 22.00it/s] 76%| | | 1650/2175 [01:15<00:23, 21.92it/s] 76%| | | 1653/2175 [01:15<00:23, 22.15it/s] 76%| | | 1656/2175 [01:15<00:23, 22.02it/s] 76%| | | 1659/2175 [01:15<00:23, 21.95it/s] 76%| | | 1662/2175 [01:15<00:23, 21.64it/s] 77%| | | 1665/2175 [01:15<00:23, 21.85it/s] 77%| | | 1668/2175 [01:15<00:22, 22.09it/s] 77%| | 1671/2175 [01:16<00:22, 22.21it/s] 77%| | | 1674/2175 [01:16<00:22, 22.03it/s] 77%| | | 1677/2175 [01:16<00:22, 22.00it/s] 77%| | | 1680/2175 [01:16<00:22, 21.90it/s] 77%| | | 1683/2175 [01:16<00:22, 21.71it/s] 78%| | | 1686/2175 [01:16<00:22, 21.79it/s] 78%| | | 1689/2175 [01:16<00:22, 21.59it/s] 78%| | | 1692/2175 [01:17<00:22, 21.54it/s] 78%| | 1695/2175 [01:17<00:22, 21.46it/s] 78%| | | 1698/2175 [01:17<00:22, 21.55it/s] 78%| | | 1701/2175 [01:17<00:21, 21.84it/s] 78%| | 1704/2175 [01:17<00:21, 21.88it/s] 78%| | | 1707/2175 [01:17<00:21, 21.39it/s] 79%| | | 1710/2175 [01:17<00:21, 21.49it/s] 79%| | | 1713/2175 [01:17<00:21, 21.51it/s] 79%| | | 1716/2175 [01:18<00:21, 21.77it/s] 79%| | | 1719/2175 [01:18<00:20, 21.73it/s] 79%| | | 1722/2175 [01:18<00:20, 21.90it/s] 79%| | | 1725/2175 [01:18<00:20, 22.04it/s] 79%| | | 1728/2175 [01:18<00:20, 21.78it/s] 80%| | | 1731/2175 [01:18<00:20, 21.73it/s] 80%| | | 1734/2175 [01:18<00:20, 21.69it/s] 80%| | | 1737/2175 [01:19<00:20, 21.89it/s] 80%| | | 1740/2175 [01:19<00:19, 21.76it/s] 80%| | 1743/2175 [01:19<00:19, 21.82it/s] 80%| | | 1746/2175 [01:19<00:19, 21.83it/s] 80%| | 1749/2175 [01:19<00:19, 21.94it/s] 81%| | | 1752/2175 [01:19<00:19, 21.79it/s] 81%| | 1755/2175 [01:19<00:19, 21.86it/s] 81%| | | 1758/2175 [01:20<00:18, 22.02it/s] 81%| | 1761/2175 [01:20<00:18, 21.92it/s] 81%| | 1764/2175 [01:20<00:18, 21.97it/s] 81%| | 1767/2175 [01:20<00:18, 22.03it/s] 81%| | 1770/2175 [01:20<00:18, 22.04it/s] 82%| | 1773/2175 [01:20<00:18, 21.68it/s] 82%| | 1776/2175 [01:20<00:18, 21.87it/s] 82%| | 1779/2175 [01:21<00:18, 21.81it/s] 82%| | 1782/2175 [01:21<00:18, 21.77it/s] 82%| | | 1785/2175 [01:21<00:17, 21.87it/s] 82%| | 1788/2175 [01:21<00:17, 21.87it/s] 82%| | 1791/2175 [01:21<00:17, 21.96it/s] 82%| | 1794/2175 [01:21<00:17, 21.64it/s] 83%| | | 1797/2175 [01:21<00:17, 21.43it/s] | 1800/2175 [01:21<00:17, 21.52it/s] 83%| | | 1803/2175 [01:22<00:17, 21.72it/s] 83%| | | 1806/2175 [01:22<00:17, 21.64it/s] 83%| | | 1809/2175 [01:22<00:16, 21.68it/s] 83%| | | 1812/2175 [01:22<00:16, 21.73it/s] 83%| | | 1815/2175 [01:22<00:16, 21.72it/s] 84%| | | 1818/2175 [01:22<00:16, 21.28it/s] 84%| | | 1821/2175 [01:22<00:16, 21.29it/s] 84%| | 1824/2175 [01:23<00:16, 21.52it/s] 84%| | | 1827/2175 [01:23<00:16, 21.50it/s] 84%| | | 1830/2175 [01:23<00:16, 21.46it/s] 84%| | | 1833/2175 [01:23<00:15, 21.66it/s] 84%| | | 1836/2175 [01:23<00:15, 21.83it/s] 85%| | | 1839/2175 [01:23<00:15, 21.76it/s] 85%| | | 1842/2175 [01:23<00:15, 21.70it/s] 85%| | 1845/2175 [01:24<00:15, 21.59it/s] 85%| | | 1848/2175 [01:24<00:15, 21.80it/s] 85%| | | 1851/2175 [01:24<00:14, 21.85it/s] 85%| | | 1854/2175 [01:24<00:14, 21.64it/s] 85%| | | 1857/2175 [01:24<00:14, 21.68it/s] 86%| | 1860/2175 [01:24<00:14, 21.62it/s] 86%| | | 1863/2175 [01:24<00:14, 21.77it/s] 86%| | 1866/2175 [01:25<00:14, 21.55it/s] 86%| | 1869/2175 [01:25<00:14, 21.71it/s] 86%| | 1872/2175 [01:25<00:13, 21.76it/s] 86%| | 1875/2175 [01:25<00:13, 21.67it/s] 86%| | | 1878/2175 [01:25<00:13, 21.35it/s] 86%| | | 1881/2175 [01:25<00:13, 21.41it/s] 87%| | | 1884/2175 [01:25<00:13, 21.32it/s] 87%| | | 1887/2175 [01:26<00:13, 21.64it/s] 87%| | | 1890/2175 [01:26<00:13, 21.62it/s] 87%| | | 1893/2175 [01:26<00:13, 21.54it/s] 87%| | 1896/2175 [01:26<00:12, 21.74it/s] 87%| | | 1899/2175 [01:26<00:12, 21.80it/s] 87%| | | 1902/2175 [01:26<00:12, 21.80it/s] 88%| | | 1905/2175 [01:26<00:12, 21.30it/s] 88%| | | 1908/2175 [01:26<00:12, 21.45it/s] 88%| | | 1911/2175 [01:27<00:12, 21.58it/s] 88%| | | 1914/2175 [01:27<00:12, 21.67it/s] 88%| | | 1917/2175 [01:27<00:11, 21.65it/s] 88%| | | 1920/2175 [01:27<00:11, 21.73it/s] 88%| | 1923/2175 [01:27<00:11, 21.54it/s] 89%| | | 1926/2175 [01:27<00:11, 21.22it/s] 89%| | | 1929/2175 [01:27<00:11, 21.23it/s] 89%| | | 1932/2175 [01:28<00:11, 21.21it/s] 89%| | 1935/2175 [01:28<00:11, 21.08it/s] 89%| | | 1938/2175 [01:28<00:11, 21.24it/s] 89%| | | 1941/2175 [01:28<00:10, 21.48it/s] 89%| | | 1944/2175 [01:28<00:10, 21.70it/s] 90%| | | 1947/2175 [01:28<00:10, 21.69it/s] 90%| | | 1950/2175 [01:28<00:10, 21.51it/s] 90%| | | 1953/2175 [01:29<00:10, 21.73it/s] 90%| | 1956/2175 [01:29<00:10, 21.65it/s]

90%| | 1959/2175 [01:29<00:09, 21.61it/s]

| 1575/2175 [01:11<00:28, 21.26it/s]

	90% 91% 91% 91% 91% 91% 92%	1969/2175 01:28<00:08, 21.89:2/a
	92%	2007/2012 (************************************
	95% 95% 96% 96% 96% 97%	2007/273 2017/2000 1 2017/27 2017/273 2017/
In [27]:	99% 99%	1c-3 .m.optim.Adam .m.optim.Ad
In [30]:	model.load_state model.eval() print(evaluate 0% 1% 3% 4% 6% 10% 12% 13% 15% 16% 18% 19% 22% 24% 22% 24% 25% 26% 28% 29% 31% 32% 34% 35% 37% 38% 40% 41% 43% 44% 46% 44% 46% 47% 49% 50% 51% 53% 50% 51% 50% 51% 50% 51% 50% 50% 51% 50% 5	Log (Stationary Load (TreamerSynth), map_locations(cmi)) [model, val cl)) [MINS, Coloros, Ravie) [127.36 (Schools), Ravie) [127.36 (Schools), Ravie) [147.58 (Coloros), Ravie) [147.58 (Coloros), Ravie) [147.58 (Coloros), Ravie) [147.59 (Coloros), Ravie) [147.50 (Coloros), Ravie) [147.50 (Coloros), Ravie) [147.51 (Coloros), Ravie) [147.51 (Coloros), Ravie) [147.52 (Coloros), Ravie) [147.52 (Coloros), Ravie) [147.53 (Coloros), Ravie) [147.54 (Coloros), Ravie) [147.55 (Coloros), Ravie) [147.56 (Coloros), Ravie) [147.56 (Coloros), Ravie) [147.57 (Coloros), Ravie) [1

90%| | 1962/2175 [01:29<00:09, 21.66it/s]