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1 D:\Software\Work\python\python.exe D:/Work/AI/
GANS/week2/DCGANs/DCGAN.py
2 True
3 Success!
4 Success!
5 100%|██████████| 469/469 [00:48<00:00,  9.64it/s]
6   7%|█          | 32/469 [00:01<00:22, 19.08it/s]
Step 500: Generator loss: 0.877656546473503,
discriminator loss: 0.5338159508705137
7 100%|██████████| 469/469 [00:25<00:00, 18.27it/s]
8  13%|█         | 63/469 [00:03<00:20, 19.62it/s]
Step 1000: Generator loss: 2.119236287117005,
discriminator loss: 0.19167998841404926
9 100%|██████████| 469/469 [00:24<00:00, 18.83it/s]
10 20%|█        | 93/469 [00:04<00:19, 19.68it/s]
Step 1500: Generator loss: 1.8532520661652094,
discriminator loss: 0.31068310630321516
11 100%|██████████| 469/469 [00:23<00:00, 19.59it/s]
12  26%|██       | 124/469 [00:06<00:17, 19.64it/s]
Step 2000: Generator loss: 1.2673162560462938,
discriminator loss: 0.4914773487448689
13 100%|██████████| 469/469 [00:24<00:00, 19.30it/s]
14  33%|██       | 155/469 [00:07<00:16, 19.61it/s]
Step 2500: Generator loss: 0.9646217910349376,
discriminator loss: 0.5666357746720315
15 100%|██████████| 469/469 [00:23<00:00, 19.86it/s]
16  40%|██       | 186/469 [00:09<00:14, 19.27it/s]
Step 3000: Generator loss: 0.8886371810436254,
discriminator loss: 0.6096086424589158
17 100%|██████████| 469/469 [00:24<00:00, 19.25it/s]
18  46%|██       | 218/469 [00:11<00:14, 17.71it/s]
Step 3500: Generator loss: 0.8370046916604044,
discriminator loss: 0.6348359159231184
19 100%|██████████| 469/469 [00:25<00:00, 18.51it/s]
20  53%|██       | 248/469 [00:13<00:11, 19.46it/s]
Step 4000: Generator loss: 0.8105415724515915,
discriminator loss: 0.6439138637781139
21 100%|██████████| 469/469 [00:24<00:00, 19.10it/s]
22  60%|██       | 280/469 [00:14<00:09, 19.37it/s]
Step 4500: Generator loss: 0.7885483463406568,
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22 discriminator loss: 0.6578333560228347
23 100%|██████████| 469/469 [00:24<00:00, 19.41it/s]
24 66%|██████████| 310/469 [00:16<00:08, 18.83it/s]
Step 5000: Generator loss: 0.7827466969490046,
discriminator loss: 0.6632841430902476
25 100%|██████████| 469/469 [00:24<00:00, 19.12it/s]
26 73%|██████████| 342/469 [00:17<00:06, 19.37it/s]
Step 5500: Generator loss: 0.771063580751419,
discriminator loss: 0.6707374788522721
27 100%|██████████| 469/469 [00:24<00:00, 19.16it/s]
28 79%|██████████| 372/469 [00:19<00:04, 19.41it/s]
Step 6000: Generator loss: 0.7595785909295091,
discriminator loss: 0.6784833171367639
29 100%|██████████| 469/469 [00:24<00:00, 19.39it/s]
30 86%|██████████| 404/469 [00:20<00:03, 19.40it/s]
Step 6500: Generator loss: 0.751486518740654,
discriminator loss: 0.6855039762258532
31 100%|██████████| 469/469 [00:24<00:00, 19.35it/s]
32 93%|██████████| 434/469 [00:22<00:01, 19.45it/s]
Step 7000: Generator loss: 0.7455493337512017,
discriminator loss: 0.6877241801023479
33 100%|██████████| 469/469 [00:24<00:00, 19.25it/s]
34 99%|██████████| 466/469 [00:24<00:00, 19.39it/s]
Step 7500: Generator loss: 0.7457062376141549,
discriminator loss: 0.6885757721662525
35 100%|██████████| 469/469 [00:24<00:00, 19.41it/s]
36 100%|██████████| 469/469 [00:24<00:00, 19.32it/s]
37 6%|████| 28/469 [00:01<00:22, 19.37it/s]
Step 8000: Generator loss: 0.7403282565474508,
discriminator loss: 0.6891128164529802
38 100%|██████████| 469/469 [00:24<00:00, 19.42it/s]
39 12%|██| 58/469 [00:02<00:21, 19.53it/s]
Step 8500: Generator loss: 0.7305056183338166,
discriminator loss: 0.6901221565008161
40 100%|██████████| 469/469 [00:24<00:00, 19.52it/s]
41 19%|██| 90/469 [00:04<00:19, 19.58it/s]
Step 9000: Generator loss: 0.7358887458443646,
discriminator loss: 0.6899202018976218
42 100%|██████████| 469/469 [00:24<00:00, 19.48it/s]
43 26%|██| 120/469 [00:06<00:17, 19.56it/s]
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43 Step 9500: Generator loss: 0.7283225485086445,  
discriminator loss: 0.6899494237899781  
44 100%|██████████| 469/469 [00:24<00:00, 19.49it/s]  
45 32%|██         | 152/469 [00:07<00:16, 19.53it/s]  
Step 10000: Generator loss: 0.7334079793095589,  
discriminator loss: 0.6915129107236861  
46 100%|██████████| 469/469 [00:24<00:00, 19.50it/s]  
47 39%|███       | 182/469 [00:09<00:14, 19.47it/s]  
Step 10500: Generator loss: 0.7250820683240887,  
discriminator loss: 0.6920438742637637  
48 100%|██████████| 469/469 [00:24<00:00, 19.48it/s]  
49 46%|███       | 214/469 [00:10<00:13, 19.44it/s]  
Step 11000: Generator loss: 0.7270281537771229,  
discriminator loss: 0.6936416431665426  
50 100%|██████████| 469/469 [00:24<00:00, 19.48it/s]  
51 52%|███       | 244/469 [00:12<00:11, 19.54it/s]  
Step 11500: Generator loss: 0.721275286138057,  
discriminator loss: 0.6938125973939897  
52 100%|██████████| 469/469 [00:24<00:00, 19.45it/s]  
53 59%|███       | 276/469 [00:14<00:09, 19.47it/s]  
Step 12000: Generator loss: 0.7180266360640528,  
discriminator loss: 0.6944776456356052  
54 100%|██████████| 469/469 [00:24<00:00, 19.08it/s]  
55 65%|███       | 306/469 [00:15<00:08, 19.53it/s]  
Step 12500: Generator loss: 0.7194361101984977,  
discriminator loss: 0.6963419275283811  
56 100%|██████████| 469/469 [00:24<00:00, 19.50it/s]  
57 72%|███       | 338/469 [00:17<00:06, 19.49it/s]  
Step 13000: Generator loss: 0.7175611880421638,  
discriminator loss: 0.6946305569410329  
58 100%|██████████| 469/469 [00:24<00:00, 19.49it/s]  
59 78%|███       | 368/469 [00:18<00:05, 19.54it/s]  
Step 13500: Generator loss: 0.7161562906503679,  
discriminator loss: 0.6976260433197018  
60 100%|██████████| 469/469 [00:24<00:00, 19.49it/s]  
61 85%|██████████| 400/469 [00:20<00:03, 19.52it/s]  
Step 14000: Generator loss: 0.7130780998468397,  
discriminator loss: 0.6956638482809069  
62 100%|██████████| 469/469 [00:24<00:00, 19.49it/s]  
63 92%|██████████| 430/469 [00:22<00:02, 19.44it/s]
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63 Step 14500: Generator loss: 0.7130531600117693,  
discriminator loss: 0.6969597077369688  
64 100%|██████████| 469/469 [00:24<00:00, 19.36it/s  
]  
65 99%|██████████| 462/469 [00:23<00:00, 19.46it/s  
]Step 15000: Generator loss: 0.7082299787998207  
, discriminator loss: 0.6987555850744248  
66 100%|██████████| 469/469 [00:24<00:00, 19.47it/s  
]  
67 100%|██████████| 469/469 [00:24<00:00, 19.51it/s  
]  
68 5%|█          | 24/469 [00:01<00:22, 19.48it/s]  
Step 15500: Generator loss: 0.7075517007112505,  
discriminator loss: 0.6976421725749968  
69 100%|██████████| 469/469 [00:24<00:00, 19.50it/s  
]  
70 12%|██        | 54/469 [00:02<00:21, 19.52it/s]  
Step 16000: Generator loss: 0.7064773321747778,  
discriminator loss: 0.6979937810897828  
71 100%|██████████| 469/469 [00:24<00:00, 19.52it/s  
]  
72 18%|██        | 86/469 [00:04<00:19, 19.40it/s]  
Step 16500: Generator loss: 0.7055092979669565,  
discriminator loss: 0.6972668014764786  
73 100%|██████████| 469/469 [00:24<00:00, 19.49it/s  
]  
74 25%|██        | 116/469 [00:05<00:18, 19.51it/s]  
]Step 17000: Generator loss: 0.706236418724061,  
discriminator loss: 0.6976315646171566  
75 100%|██████████| 469/469 [00:24<00:00, 19.47it/s  
]  
76 32%|██        | 148/469 [00:07<00:16, 19.51it/s]  
]Step 17500: Generator loss: 0.7054876395463935  
, discriminator loss: 0.6965762106180198  
77 100%|██████████| 469/469 [00:24<00:00, 19.49it/s  
]  
78 38%|██        | 178/469 [00:09<00:14, 19.54it/s]  
]Step 18000: Generator loss: 0.705938377737998,  
discriminator loss: 0.6964528712034223  
79 100%|██████████| 469/469 [00:24<00:00, 19.50it/s
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79 ]
80 45%|██████   | 210/469 [00:10<00:13, 19.41it/s
]Step 18500: Generator loss: 0.704148030519485,
discriminator loss: 0.6965032945871357
81 100%|██████████| 469/469 [00:24<00:00, 19.46it/s
]
82 51%|█████   | 240/469 [00:12<00:11, 19.55it/s
]Step 19000: Generator loss: 0.7052848368883131
, discriminator loss: 0.6965925121307376
83 100%|██████████| 469/469 [00:24<00:00, 19.15it/s
]
84 58%|███████  | 272/469 [00:17<00:11, 17.87it/s
]Step 19500: Generator loss: 0.7028147572278975
, discriminator loss: 0.6958132703304291
85 100%|██████████| 469/469 [00:27<00:00, 17.22it/s
]
86 64%|███████  | 302/469 [00:15<00:08, 19.93it/s
]Step 20000: Generator loss: 0.703994404792786,
discriminator loss: 0.6956344311237339
87 100%|██████████| 469/469 [00:23<00:00, 19.88it/s
]
88 71%|███████  | 334/469 [00:16<00:06, 19.95it/s
]Step 20500: Generator loss: 0.7015956560373307
, discriminator loss: 0.6950947096347809
89 100%|██████████| 469/469 [00:23<00:00, 19.83it/s
]
90 78%|███████  | 365/469 [00:18<00:05, 18.71it/s
]Step 21000: Generator loss: 0.7032702299356457
, discriminator loss: 0.6954567121267314
91 100%|██████████| 469/469 [00:24<00:00, 19.45it/s
]
92 84%|███████  | 396/469 [00:20<00:03, 19.56it/s
]Step 21500: Generator loss: 0.7018225887417784
, discriminator loss: 0.6953606392145154
93 100%|██████████| 469/469 [00:23<00:00, 19.58it/s
]
94 91%|███████  | 426/469 [00:21<00:02, 19.59it/s
]Step 22000: Generator loss: 0.701743696570396,
discriminator loss: 0.6946053197383887
95 100%|██████████| 469/469 [00:23<00:00, 19.56it/s
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95 ]
96 98%|███████| 458/469 [00:23<00:00, 19.55it/s
]Step 22500: Generator loss: 0.7021847277879718
, discriminator loss: 0.6949442427158357
97 100%|███████| 469/469 [00:23<00:00, 19.59it/s
]
98 100%|███████| 469/469 [00:23<00:00, 19.58it/s
]
99 4%|          | 20/469 [00:01<00:23, 19.35it/s]
Step 23000: Generator loss: 0.70078856086731,
discriminator loss: 0.6946587837934494
100 100%|███████| 469/469 [00:24<00:00, 19.12it/s
]
101 11%|█        | 50/469 [00:02<00:21, 19.45it/s]
Step 23500: Generator loss: 0.7016804193258289,
discriminator loss: 0.6945708575248717
102 100%|███████| 469/469 [00:24<00:00, 19.52it/s
]
103 17%|█        | 82/469 [00:04<00:19, 19.55it/s]
Step 24000: Generator loss: 0.7016960682868951,
discriminator loss: 0.6949811843633651
104 100%|███████| 469/469 [00:24<00:00, 19.54it/s
]
105 24%|█        | 112/469 [00:05<00:18, 19.63it/s
]Step 24500: Generator loss: 0.7005158460140233
, discriminator loss: 0.6947600061893463
106 100%|███████| 469/469 [00:23<00:00, 19.54it/s
]
107 31%|█        | 144/469 [00:07<00:16, 19.52it/s
]Step 25000: Generator loss: 0.7011890330314634
, discriminator loss: 0.6948281104564665
108 100%|███████| 469/469 [00:23<00:00, 19.55it/s
]
109 37%|█        | 174/469 [00:08<00:15, 19.45it/s
]Step 25500: Generator loss: 0.6998439311981206
, discriminator loss: 0.694572190880775
110 100%|███████| 469/469 [00:23<00:00, 19.56it/s
]
111 44%|███████| 206/469 [00:10<00:13, 19.57it/s
]Step 26000: Generator loss: 0.7001534622907635
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111 , discriminator loss: 0.6947752593755728
112 100%|██████████| 469/469 [00:23<00:00, 19.55it/s
]
113 50%|████      | 236/469 [00:12<00:11, 19.57it/s
]Step 26500: Generator loss: 0.6998676213026043
, discriminator loss: 0.6943455989360817
114 100%|██████████| 469/469 [00:23<00:00, 19.56it/s
]
115 57%|███████    | 268/469 [00:13<00:10, 19.59it/s
]Step 27000: Generator loss: 0.6999796403646465
, discriminator loss: 0.6938460220098496
116 100%|██████████| 469/469 [00:24<00:00, 19.53it/s
]
117 64%|███████    | 298/469 [00:15<00:08, 19.47it/s
]Step 27500: Generator loss: 0.7000277506709092
, discriminator loss: 0.6946095831394192
118 100%|██████████| 469/469 [00:24<00:00, 19.52it/s
]
119 70%|███████    | 330/469 [00:17<00:07, 19.54it/s
]Step 28000: Generator loss: 0.6986243848800663
, discriminator loss: 0.6941590707302095
120 100%|██████████| 469/469 [00:24<00:00, 19.06it/s
]
121 77%|███████    | 360/469 [00:18<00:05, 18.44it/s
]Step 28500: Generator loss: 0.69918732213974,
discriminator loss: 0.6941368107795716
122 100%|██████████| 469/469 [00:24<00:00, 19.04it/s
]
123 84%|███████    | 392/469 [00:20<00:04, 19.08it/s
]Step 29000: Generator loss: 0.6983616214990617
, discriminator loss: 0.6941091488599778
124 100%|██████████| 469/469 [00:24<00:00, 19.25it/s
]
125 90%|███████    | 422/469 [00:22<00:02, 19.12it/s
]Step 29500: Generator loss: 0.6975521507263184
, discriminator loss: 0.6940159242153164
126 100%|██████████| 469/469 [00:25<00:00, 18.64it/s
]
127 97%|███████    | 454/469 [00:24<00:00, 19.12it/s
]Step 30000: Generator loss: 0.6974304269552235
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127 , discriminator loss: 0.6943349220752713
128 100%|██████████| 469/469 [00:24<00:00, 18.82it/s
]
129 100%|██████████| 469/469 [00:24<00:00, 19.43it/s
]
130 3%|          | 16/469 [00:00<00:24, 18.63it/s]
Step 30500: Generator loss: 0.6974112570285794,
discriminator loss: 0.6943841624259945
131 100%|██████████| 469/469 [00:25<00:00, 18.42it/s
]
132 10%|█         | 46/469 [00:02<00:21, 19.24it/s]
Step 31000: Generator loss: 0.6979265913963322,
discriminator loss: 0.6938977792263027
133 100%|██████████| 469/469 [00:24<00:00, 19.14it/s
]
134 17%|█         | 78/469 [00:04<00:20, 19.38it/s]
Step 31500: Generator loss: 0.6974336191415782,
discriminator loss: 0.6943728294372559
135 100%|██████████| 469/469 [00:24<00:00, 19.47it/s
]
136 23%|█         | 108/469 [00:05<00:18, 19.52it/s
]Step 32000: Generator loss: 0.696814474225044,
discriminator loss: 0.6940085486173625
137 100%|██████████| 469/469 [00:24<00:00, 19.47it/s
]
138 30%|█         | 140/469 [00:07<00:16, 19.50it/s
]Step 32500: Generator loss: 0.6974240483045578
, discriminator loss: 0.6942746422290808
139 100%|██████████| 469/469 [00:24<00:00, 19.43it/s
]
140 36%|████      | 170/469 [00:08<00:15, 19.46it/s
]Step 33000: Generator loss: 0.6970862590074548
, discriminator loss: 0.6937600541114802
141 100%|██████████| 469/469 [00:24<00:00, 19.48it/s
]
142 43%|████      | 202/469 [00:10<00:13, 19.41it/s
]Step 33500: Generator loss: 0.6979535229206081
, discriminator loss: 0.6940401248931888
143 100%|██████████| 469/469 [00:24<00:00, 19.50it/s
]
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144 49%|██████| 232/469 [00:11<00:12, 19.49it/s
]Step 34000: Generator loss: 0.6965450110435489
, discriminator loss: 0.6940517649650577
145 100%|████████| 469/469 [00:24<00:00, 19.48it/s
]
146 56%|██████| 264/469 [00:13<00:10, 19.36it/s
]Step 34500: Generator loss: 0.6970149694681168
, discriminator loss: 0.6938215104341514
147 100%|████████| 469/469 [00:24<00:00, 19.46it/s
]
148 63%|███████| 294/469 [00:15<00:08, 19.51it/s
]Step 35000: Generator loss: 0.6962142348289486
, discriminator loss: 0.6938392126560218
149 100%|████████| 469/469 [00:24<00:00, 19.49it/s
]
150 70%|███████| 326/469 [00:16<00:07, 20.04it/s
]Step 35500: Generator loss: 0.6971555862426759
, discriminator loss: 0.6941158155202869
151 100%|████████| 469/469 [00:23<00:00, 19.94it/s
]
152 76%|███████| 356/469 [00:18<00:05, 19.81it/s
]Step 36000: Generator loss: 0.6955505582094186
, discriminator loss: 0.6938974798917771
153 100%|████████| 469/469 [00:23<00:00, 19.77it/s
]
154 83%|███████| 388/469 [00:19<00:04, 19.77it/s
]Step 36500: Generator loss: 0.6964825606346128
, discriminator loss: 0.6941237701177603
155 100%|████████| 469/469 [00:23<00:00, 19.94it/s
]
156 89%|███████| 417/469 [00:20<00:02, 20.00it/s
]Step 37000: Generator loss: 0.6961575112342834
, discriminator loss: 0.693792659878731
157 100%|████████| 469/469 [00:23<00:00, 19.90it/s
]
158 96%|███████| 448/469 [00:22<00:01, 19.87it/s
]Step 37500: Generator loss: 0.6952674740552905
, discriminator loss: 0.6936284902095801
159 100%|████████| 469/469 [00:23<00:00, 19.89it/s
]
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160 100%|██████████| 469/469 [00:23<00:00, 20.01it/s
]
161 2%|█          | 10/469 [00:00<00:23, 19.95it/s]
Step 38000: Generator loss: 0.6955436873435981,
discriminator loss: 0.6939553592205042
162 100%|██████████| 469/469 [00:23<00:00, 19.98it/s
]
163 9%|█         | 43/469 [00:02<00:21, 19.93it/s]
Step 38500: Generator loss: 0.6963457667827606,
discriminator loss: 0.6936906950473785
164 100%|██████████| 469/469 [00:23<00:00, 20.01it/s
]
165 16%|█       | 74/469 [00:03<00:19, 20.03it/s]
Step 39000: Generator loss: 0.6955312312841415,
discriminator loss: 0.6937393258810047
166 100%|██████████| 469/469 [00:23<00:00, 20.00it/s
]
167 22%|█     | 104/469 [00:05<00:18, 20.06it/s
]Step 39500: Generator loss: 0.6948766481876373
, discriminator loss: 0.6937730143070212
168 100%|██████████| 469/469 [00:23<00:00, 20.01it/s
]
169 29%|█   | 136/469 [00:06<00:16, 19.99it/s
]Step 40000: Generator loss: 0.695212243676186,
discriminator loss: 0.6938071055412289
170 100%|██████████| 469/469 [00:23<00:00, 20.01it/s
]
171 35%|█    | 165/469 [00:08<00:15, 19.95it/s
]Step 40500: Generator loss: 0.6950643441677092
, discriminator loss: 0.6938522851467127
172 100%|██████████| 469/469 [00:23<00:00, 20.02it/s
]
173 42%|█   | 198/469 [00:09<00:13, 20.05it/s
]Step 41000: Generator loss: 0.6951321092844012
, discriminator loss: 0.6937707388401031
174 100%|██████████| 469/469 [00:23<00:00, 20.04it/s
]
175 49%|█   | 228/469 [00:11<00:12, 20.02it/s
]Step 41500: Generator loss: 0.6955794225931173
, discriminator loss: 0.6937701723575593
```

176	100%	[██████]	469/469 [00:23<00:00, 20.01it/s]
177	55%	[███]	258/469 [00:12<00:10, 19.84it/s]
			]Step 42000: Generator loss: 0.6950399049520491
			, discriminator loss: 0.6936884009838102
178	100%	[██████]	469/469 [00:23<00:00, 20.01it/s]
			]
179	62%	[███]	290/469 [00:14<00:08, 19.99it/s]
			]Step 42500: Generator loss: 0.6947908614873886
			, discriminator loss: 0.6937651621103287
180	100%	[██████]	469/469 [00:23<00:00, 20.03it/s]
			]
181	69%	[███]	322/469 [00:16<00:07, 19.98it/s]
			]Step 43000: Generator loss: 0.6949568823575967
			, discriminator loss: 0.6937544957399367
182	100%	[██████]	469/469 [00:23<00:00, 20.01it/s]
			]
183	75%	[███]	352/469 [00:17<00:05, 19.94it/s]
			]Step 43500: Generator loss: 0.6947412911653515
			, discriminator loss: 0.6936774097681047
184	100%	[██████]	469/469 [00:23<00:00, 20.02it/s]
			]
185	82%	[███]	383/469 [00:19<00:04, 19.61it/s]
			]Step 44000: Generator loss: 0.6944239890575408
			, discriminator loss: 0.6937406551837928
186	100%	[██████]	469/469 [00:23<00:00, 19.59it/s]
			]
187	88%	[███]	414/469 [00:21<00:02, 19.66it/s]
			]Step 44500: Generator loss: 0.6946257336139676
			, discriminator loss: 0.6938215413093566
188	100%	[██████]	469/469 [00:23<00:00, 19.57it/s]
			]
189	95%	[███]	446/469 [00:22<00:01, 19.55it/s]
			]Step 45000: Generator loss: 0.6943250702619547
			, discriminator loss: 0.6937341561317444
190	100%	[██████]	469/469 [00:23<00:00, 19.58it/s]
			]
191	100%	[██████]	469/469 [00:23<00:00, 19.59it/s]
			]
192	2%	[ ]	8/469 [00:00<00:23, 19.46it/s]

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192 Step 45500: Generator loss: 0.6941035698652268,  
discriminator loss: 0.6936112419366834  
193 100%|██████████| 469/469 [00:23<00:00, 19.59it/s  
]  
194 8%|██         | 38/469 [00:01<00:22, 19.49it/s]  
Step 46000: Generator loss: 0.694044985413551,  
discriminator loss: 0.6936014544963837  
195 100%|██████████| 469/469 [00:23<00:00, 19.58it/s  
]  
196 15%|██       | 69/469 [00:03<00:20, 19.48it/s]  
Step 46500: Generator loss: 0.6943110836744312,  
discriminator loss: 0.6935957235097883  
197 100%|██████████| 469/469 [00:23<00:00, 19.55it/s  
]  
198 21%|██     | 100/469 [00:05<00:18, 19.68it/s]  
]Step 47000: Generator loss: 0.6944078531265261  
, discriminator loss: 0.6935834556818005  
199 100%|██████████| 469/469 [00:23<00:00, 19.55it/s  
]  
200 28%|██   | 132/469 [00:06<00:17, 19.52it/s]  
]Step 47500: Generator loss: 0.6939624457359311  
, discriminator loss: 0.6936063328981394  
201 100%|██████████| 469/469 [00:23<00:00, 19.59it/s  
]  
202 35%|██   | 162/469 [00:08<00:15, 19.61it/s]  
]Step 48000: Generator loss: 0.6949812419414523  
, discriminator loss: 0.693669318318367  
203 100%|██████████| 469/469 [00:23<00:00, 19.57it/s  
]  
204 41%|██   | 194/469 [00:09<00:14, 19.63it/s]  
]Step 48500: Generator loss: 0.6937921310663219  
, discriminator loss: 0.6935329869985583  
205 100%|██████████| 469/469 [00:23<00:00, 19.59it/s  
]  
206 48%|██   | 225/469 [00:11<00:12, 19.58it/s]  
]Step 49000: Generator loss: 0.6938434993028639  
, discriminator loss: 0.6935604376792913  
207 100%|██████████| 469/469 [00:23<00:00, 19.59it/s  
]  
208 55%|██████ | 256/469 [00:13<00:10, 19.55it/s
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208 ]Step 49500: Generator loss: 0.6941560301780696
      , discriminator loss: 0.6934673819541926
209 100%|██████████| 469/469 [00:23<00:00, 19.59it/s
      ]
210 61%|██████    | 286/469 [00:14<00:09, 19.61it/s
      ]Step 50000: Generator loss: 0.6935943000316617
      , discriminator loss: 0.6934859563112266
211 100%|██████████| 469/469 [00:23<00:00, 19.58it/s
      ]
212 68%|███████   | 318/469 [00:15<00:07, 20.04it/s
      ]Step 50500: Generator loss: 0.6942061463594441
      , discriminator loss: 0.6934799935817711
213 100%|██████████| 469/469 [00:23<00:00, 20.04it/s
      ]
214 74%|███████   | 348/469 [00:17<00:06, 19.58it/s
      ]Step 51000: Generator loss: 0.693850239992142,
      discriminator loss: 0.6934790636301039
215 100%|██████████| 469/469 [00:23<00:00, 19.60it/s
      ]
216 81%|███████   | 380/469 [00:19<00:04, 19.65it/s
      ]Step 51500: Generator loss: 0.6934139112234118
      , discriminator loss: 0.6934870805740353
217 100%|██████████| 469/469 [00:23<00:00, 19.59it/s
      ]
218 87%|███████   | 410/469 [00:20<00:03, 19.62it/s
      ]Step 52000: Generator loss: 0.6938598839044575
      , discriminator loss: 0.693478944659233
219 100%|██████████| 469/469 [00:23<00:00, 19.58it/s
      ]
220 94%|██████████| 442/469 [00:22<00:01, 19.49it/s
      ]Step 52500: Generator loss: 0.6937192045450212
      , discriminator loss: 0.6934475213289252
221 100%|██████████| 469/469 [00:23<00:00, 19.57it/s
      ]
222 100%|██████████| 469/469 [00:23<00:00, 19.59it/s
      ]
223  1%|          | 4/469 [00:00<00:24, 18.78it/s]
      Step 53000: Generator loss: 0.693431885123253,
      discriminator loss: 0.6935790570974351
224 100%|██████████| 469/469 [00:23<00:00, 19.61it/s
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224 ]
225 7%|██████ | 34/469 [00:01<00:22, 19.54it/s]
Step 53500: Generator loss: 0.6934175196886067,
discriminator loss: 0.6935066114664076
226 100%|██████████| 469/469 [00:23<00:00, 19.61it/s]
]
227 14%|█       | 66/469 [00:03<00:20, 19.49it/s]
Step 54000: Generator loss: 0.6933619627952579,
discriminator loss: 0.693480404138565
228 100%|██████████| 469/469 [00:23<00:00, 19.59it/s]
]
229 20%|██     | 96/469 [00:04<00:19, 19.59it/s]
Step 54500: Generator loss: 0.6933011027574536,
discriminator loss: 0.6933408139944074
230 100%|██████████| 469/469 [00:23<00:00, 19.58it/s]
]
231 27%|███    | 128/469 [00:06<00:17, 19.63it/s]
]Step 55000: Generator loss: 0.6933096988201143
, discriminator loss: 0.6933660314083098
232 100%|██████████| 469/469 [00:23<00:00, 19.57it/s]
]
233 34%|███    | 158/469 [00:08<00:16, 19.19it/s]
]Step 55500: Generator loss: 0.693819489598275,
discriminator loss: 0.6934654340744015
234 100%|██████████| 469/469 [00:23<00:00, 19.57it/s]
]
235 41%|███    | 190/469 [00:09<00:14, 19.48it/s]
]Step 56000: Generator loss: 0.6931098141670239
, discriminator loss: 0.6934118913412095
236 100%|██████████| 469/469 [00:23<00:00, 19.58it/s]
]
237 47%|███    | 220/469 [00:11<00:12, 19.64it/s]
]Step 56500: Generator loss: 0.693241543054581,
discriminator loss: 0.6933533351421353
238 100%|██████████| 469/469 [00:23<00:00, 19.59it/s]
]
239 54%|███    | 252/469 [00:12<00:11, 19.67it/s]
]Step 57000: Generator loss: 0.6936208500862122
, discriminator loss: 0.693443432807923
240 100%|██████████| 469/469 [00:23<00:00, 19.57it/s]
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240 ]
241 60%|██████   | 282/469 [00:14<00:09, 19.54it/s
]Step 57500: Generator loss: 0.6934610823392873
, discriminator loss: 0.6933816494941711
242 100%|███████| 469/469 [00:23<00:00, 19.57it/s
]
243 67%|██████  | 314/469 [00:15<00:07, 20.00it/s
]Step 58000: Generator loss: 0.6933909466266628
, discriminator loss: 0.6933206868171693
244 100%|███████| 469/469 [00:23<00:00, 19.99it/s
]
245 73%|███████ | 344/469 [00:17<00:06, 19.91it/s
]Step 58500: Generator loss: 0.6933727076053621
, discriminator loss: 0.6933331142663958
246 100%|███████| 469/469 [00:23<00:00, 20.02it/s
]
247 80%|███████ | 376/469 [00:19<00:04, 19.19it/s
]Step 59000: Generator loss: 0.6932422648668289
, discriminator loss: 0.69327648806572
248 100%|███████| 469/469 [00:24<00:00, 19.53it/s
]
249 87%|███████ | 406/469 [00:20<00:03, 19.66it/s
]Step 59500: Generator loss: 0.6932294520139695
, discriminator loss: 0.6933272393941883
250 100%|███████| 469/469 [00:23<00:00, 19.60it/s
]
251 93%|███████ | 438/469 [00:22<00:01, 19.57it/s
]Step 60000: Generator loss: 0.6936774325370788
, discriminator loss: 0.6933137049674988
252 100%|███████| 469/469 [00:23<00:00, 19.57it/s
]
253 100%|███████| 469/469 [00:23<00:00, 19.56it/s
]
254 0%|          | 0/469 [00:00<?, ?it/s]Step
60500: Generator loss: 0.693541649699211,
discriminator loss: 0.6933299797773363
255 100%|███████| 469/469 [00:23<00:00, 19.59it/s
]
256 6%|█         | 30/469 [00:01<00:22, 19.56it/s]
Step 61000: Generator loss: 0.6932610169649119,
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256 discriminator loss: 0.69328930747509
257 100%|██████████| 469/469 [00:23<00:00, 19.58it/s]
]
258 13%|█          | 62/469 [00:03<00:20, 19.51it/s]
Step 61500: Generator loss: 0.6934302128553383,
discriminator loss: 0.6932848006486897
259 100%|██████████| 469/469 [00:23<00:00, 19.57it/s]
]
260 20%|█          | 92/469 [00:04<00:19, 19.60it/s]
Step 62000: Generator loss: 0.6933841218948359,
discriminator loss: 0.6932612520456317
261 100%|██████████| 469/469 [00:23<00:00, 19.58it/s]
]
262 26%|█          | 124/469 [00:06<00:17, 19.60it/s]
]Step 62500: Generator loss: 0.693476125717162,
discriminator loss: 0.6933516489267355
263 100%|██████████| 469/469 [00:23<00:00, 19.57it/s]
]
264 33%|█          | 154/469 [00:07<00:16, 19.62it/s]
]Step 63000: Generator loss: 0.6934011973142623
, discriminator loss: 0.6932589460611336
265 100%|██████████| 469/469 [00:23<00:00, 19.57it/s]
]
266 40%|█          | 186/469 [00:09<00:14, 19.56it/s]
]Step 63500: Generator loss: 0.6937245898246759
, discriminator loss: 0.6932777777910234
267 100%|██████████| 469/469 [00:23<00:00, 19.56it/s]
]
268 46%|████      | 216/469 [00:11<00:12, 19.60it/s]
]Step 64000: Generator loss: 0.693596231102943,
discriminator loss: 0.6933181594610212
269 100%|██████████| 469/469 [00:23<00:00, 19.58it/s]
]
270 53%|████      | 248/469 [00:12<00:11, 19.65it/s]
]Step 64500: Generator loss: 0.693263105869292,
discriminator loss: 0.6932880072593678
271 100%|██████████| 469/469 [00:23<00:00, 19.60it/s]
]
272 59%|████      | 278/469 [00:14<00:09, 19.54it/s]
]Step 65000: Generator loss: 0.6931902145147332
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272 , discriminator loss: 0.6932663260698321
273 100%|██████████| 469/469 [00:23<00:00, 19.57it/s
]
274 66%|██████████| 310/469 [00:15<00:08, 19.58it/s
]Step 65500: Generator loss: 0.6931852592229847
, discriminator loss: 0.6932405567169193
275 100%|██████████| 469/469 [00:23<00:00, 19.58it/s
]
276 72%|██████████| 340/469 [00:17<00:06, 19.61it/s
]Step 66000: Generator loss: 0.6931812804937363
, discriminator loss: 0.6932383860349659
277 100%|██████████| 469/469 [00:23<00:00, 19.59it/s
]
278 79%|██████████| 371/469 [00:18<00:04, 19.60it/s
]Step 66500: Generator loss: 0.6932929751873009
, discriminator loss: 0.693246886491776
279 100%|██████████| 469/469 [00:23<00:00, 19.58it/s
]
280 86%|██████████| 402/469 [00:20<00:03, 19.54it/s
]Step 67000: Generator loss: 0.6932052605152135
, discriminator loss: 0.6932292225360869
281 100%|██████████| 469/469 [00:23<00:00, 19.56it/s
]
282 93%|██████████| 434/469 [00:22<00:01, 19.55it/s
]Step 67500: Generator loss: 0.6932954328060147
, discriminator loss: 0.6932375010251999
283 100%|██████████| 469/469 [00:23<00:00, 19.57it/s
]
284 99%|██████████| 464/469 [00:23<00:00, 19.60it/s
]Step 68000: Generator loss: 0.6933052841424943
, discriminator loss: 0.6932627720832826
285 100%|██████████| 469/469 [00:23<00:00, 19.59it/s
]
286 100%|██████████| 469/469 [00:23<00:00, 19.60it/s
]
287 6%|██| 26/469 [00:01<00:22, 19.62it/s]
Step 68500: Generator loss: 0.6934287482500077,
discriminator loss: 0.6932152402400962
288 100%|██████████| 469/469 [00:24<00:00, 19.49it/s
]
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289 12%|██████| 58/469 [00:02<00:21, 19.54it/s]
Step 69000: Generator loss: 0.6934076933860774,
discriminator loss: 0.693254441738128
290 100%|████████| 469/469 [00:23<00:00, 19.59it/s]
]
291 19%|███| 88/469 [00:04<00:19, 19.63it/s]
Step 69500: Generator loss: 0.6934989894628519,
discriminator loss: 0.6932587313652033
292 100%|████████| 469/469 [00:23<00:00, 19.58it/s]
]
293 26%|███| 120/469 [00:06<00:17, 19.60it/s]
]Step 70000: Generator loss: 0.6933620629310604
, discriminator loss: 0.6932439947128294
294 100%|████████| 469/469 [00:23<00:00, 19.56it/s]
]
295 32%|███| 150/469 [00:07<00:16, 19.56it/s]
]Step 70500: Generator loss: 0.6933048278093334
, discriminator loss: 0.6932043995857227
296 100%|████████| 469/469 [00:23<00:00, 19.57it/s]
]
297 39%|███| 182/469 [00:09<00:14, 19.54it/s]
]Step 71000: Generator loss: 0.6933293981552127
, discriminator loss: 0.6931935472488404
298 100%|████████| 469/469 [00:23<00:00, 19.56it/s]
]
299 45%|███| 212/469 [00:10<00:13, 19.52it/s]
]Step 71500: Generator loss: 0.6932814928293222
, discriminator loss: 0.6932018482685092
300 100%|████████| 469/469 [00:23<00:00, 19.60it/s]
]
301 52%|███| 244/469 [00:12<00:11, 19.65it/s]
]Step 72000: Generator loss: 0.6933307830095293
, discriminator loss: 0.6932755625247957
302 100%|████████| 469/469 [00:23<00:00, 19.58it/s]
]
303 58%|███| 274/469 [00:14<00:10, 18.76it/s]
]Step 72500: Generator loss: 0.6935693452358253
, discriminator loss: 0.693252656579018
304 100%|████████| 469/469 [00:24<00:00, 19.44it/s]
]
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305 65%|██████| 304/469 [00:15<00:08, 20.06it/s
]Step 73000: Generator loss: 0.6935548695325853
, discriminator loss: 0.6932428538799287
306 100%|██████| 469/469 [00:23<00:00, 20.01it/s
]
307 71%|██████| 335/469 [00:16<00:06, 20.04it/s
]Step 73500: Generator loss: 0.6936141903400422
, discriminator loss: 0.6932632156610488
308 100%|██████| 469/469 [00:23<00:00, 20.01it/s
]
309 78%|██████| 368/469 [00:18<00:05, 19.96it/s
]Step 74000: Generator loss: 0.6936166502237322
, discriminator loss: 0.693298267841339
310 100%|██████| 469/469 [00:23<00:00, 20.01it/s
]
311 85%|██████| 398/469 [00:19<00:03, 20.02it/s
]Step 74500: Generator loss: 0.693653875946999,
discriminator loss: 0.6932659631967538
312 100%|██████| 469/469 [00:23<00:00, 20.01it/s
]
313 92%|██████| 430/469 [00:21<00:01, 20.03it/s
]Step 75000: Generator loss: 0.6935799494981759
, discriminator loss: 0.6932131714820858
314 100%|██████| 469/469 [00:23<00:00, 20.01it/s
]
315 98%|██████| 459/469 [00:22<00:00, 20.06it/s
]Step 75500: Generator loss: 0.6936590828895568
, discriminator loss: 0.6932386827468868
316 100%|██████| 469/469 [00:23<00:00, 20.01it/s
]
317 100%|██████| 469/469 [00:23<00:00, 20.04it/s
]
318 5%|████| 22/469 [00:01<00:22, 19.96it/s]
Step 76000: Generator loss: 0.6933888942003261,
discriminator loss: 0.6932621868848797
319 100%|██████| 469/469 [00:23<00:00, 20.01it/s
]
320 11%|███| 52/469 [00:02<00:20, 19.96it/s]
Step 76500: Generator loss: 0.693686318993569,
discriminator loss: 0.6932168295383453
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321 100%|██████████| 469/469 [00:23<00:00, 20.01it/s
]
322 18%|██      | 84/469 [00:04<00:19, 19.63it/s]
Step 77000: Generator loss: 0.693605345726013,
discriminator loss: 0.6932414150238033
323 100%|██████████| 469/469 [00:23<00:00, 19.60it/s
]
324 25%|██      | 116/469 [00:05<00:18, 19.58it/s
]Step 77500: Generator loss: 0.693674461245537,
discriminator loss: 0.6933087693452828
325 100%|██████████| 469/469 [00:23<00:00, 19.57it/s
]
326 31%|██      | 146/469 [00:07<00:16, 19.54it/s
]Step 78000: Generator loss: 0.6940938211679459
, discriminator loss: 0.6934235701560978
327 100%|██████████| 469/469 [00:23<00:00, 19.58it/s
]
328 38%|██      | 178/469 [00:09<00:14, 19.57it/s
]Step 78500: Generator loss: 0.693481516718865,
discriminator loss: 0.693299938678741
329 100%|██████████| 469/469 [00:23<00:00, 19.59it/s
]
330 44%|██      | 208/469 [00:10<00:13, 19.61it/s
]Step 79000: Generator loss: 0.6937354191541665
, discriminator loss: 0.6933087611198424
331 100%|██████████| 469/469 [00:23<00:00, 19.59it/s
]
332 51%|██      | 239/469 [00:12<00:11, 19.54it/s
]Step 79500: Generator loss: 0.6931062958240504
, discriminator loss: 0.6933155109882359
333 100%|██████████| 469/469 [00:23<00:00, 19.59it/s
]
334 58%|██      | 270/469 [00:13<00:10, 19.62it/s
]Step 80000: Generator loss: 0.6934807400703432
, discriminator loss: 0.6932889487743374
335 100%|██████████| 469/469 [00:23<00:00, 19.59it/s
]
336 64%|██      | 302/469 [00:15<00:08, 19.49it/s
]Step 80500: Generator loss: 0.6934823826551434
, discriminator loss: 0.6932750625610352
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337 100%|██████████| 469/469 [00:23<00:00, 19.59it/s
]
338 71%|██████| 332/469 [00:16<00:06, 19.58it/s
]Step 81000: Generator loss: 0.6934301929473878
, discriminator loss: 0.6932441436052318
339 100%|██████████| 469/469 [00:23<00:00, 19.57it/s
]
340 78%|███████| 364/469 [00:18<00:05, 19.62it/s
]Step 81500: Generator loss: 0.6932993576526637
, discriminator loss: 0.6932682490348816
341 100%|██████████| 469/469 [00:23<00:00, 19.59it/s
]
342 84%|███████| 394/469 [00:20<00:03, 19.62it/s
]Step 82000: Generator loss: 0.6932782818078994
, discriminator loss: 0.6932296984195708
343 100%|██████████| 469/469 [00:23<00:00, 19.58it/s
]
344 91%|████████| 426/469 [00:21<00:02, 19.57it/s
]Step 82500: Generator loss: 0.692983991026878,
discriminator loss: 0.6932385858297344
345 100%|██████████| 469/469 [00:23<00:00, 19.57it/s
]
346 97%|████████| 456/469 [00:23<00:00, 19.57it/s
]Step 83000: Generator loss: 0.6933928874731068
, discriminator loss: 0.6932035599946981
347 100%|██████████| 469/469 [00:23<00:00, 19.60it/s
]
348 100%|██████████| 469/469 [00:23<00:00, 19.59it/s
]
349 4%|■          | 18/469 [00:00<00:22, 19.62it/s]
Step 83500: Generator loss: 0.6933432598114008,
discriminator loss: 0.6931790324449535
350 100%|██████████| 469/469 [00:23<00:00, 19.60it/s
]
351 11%|■          | 50/469 [00:02<00:20, 20.04it/s]
Step 84000: Generator loss: 0.6934443384408954,
discriminator loss: 0.6932677885293964
352 100%|██████████| 469/469 [00:23<00:00, 20.03it/s
]
353 17%|■          | 81/469 [00:04<00:19, 20.02it/s]
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353 Step 84500: Generator loss: 0.6933369626998906,  
discriminator loss: 0.693293563485145  
354 100%|██████████| 469/469 [00:23<00:00, 20.02it/s  
]  
355 24%|██        | 112/469 [00:05<00:17, 20.04it/s  
]Step 85000: Generator loss: 0.6933763492107395  
, discriminator loss: 0.6932695361375814  
356 100%|██████████| 469/469 [00:23<00:00, 20.02it/s  
]  
357 30%|██        | 141/469 [00:07<00:16, 20.01it/s  
]Step 85500: Generator loss: 0.693784130454063,  
discriminator loss: 0.6931812088489534  
358 100%|██████████| 469/469 [00:23<00:00, 20.02it/s  
]  
359 37%|██        | 173/469 [00:08<00:14, 20.01it/s  
]Step 86000: Generator loss: 0.6936237047910686  
, discriminator loss: 0.6932564580440523  
360 100%|██████████| 469/469 [00:23<00:00, 20.00it/s  
]  
361 43%|██        | 204/469 [00:10<00:13, 19.55it/s  
]Step 86500: Generator loss: 0.6935452092885969  
, discriminator loss: 0.6931945472955708  
362 100%|██████████| 469/469 [00:23<00:00, 19.57it/s  
]  
363 50%|██        | 236/469 [00:12<00:11, 19.60it/s  
]Step 87000: Generator loss: 0.6933993440866473  
, discriminator loss: 0.6932973557710653  
364 100%|██████████| 469/469 [00:23<00:00, 19.58it/s  
]  
365 57%|██        | 266/469 [00:13<00:10, 19.60it/s  
]Step 87500: Generator loss: 0.6933939408063893  
, discriminator loss: 0.6931667556762703  
366 100%|██████████| 469/469 [00:23<00:00, 19.59it/s  
]  
367 64%|██        | 298/469 [00:15<00:08, 19.53it/s  
]Step 88000: Generator loss: 0.6932880038022996  
, discriminator loss: 0.6932719401121132  
368 100%|██████████| 469/469 [00:23<00:00, 19.60it/s  
]  
369 70%|██        | 329/469 [00:16<00:07, 19.53it/s
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369 ]Step 88500: Generator loss: 0.6935409567356114
      , discriminator loss: 0.693213552355767
370 100%|██████████| 469/469 [00:23<00:00, 19.59it/s
      ]
371 77%|███████| 360/469 [00:18<00:05, 19.50it/s
      ]Step 89000: Generator loss: 0.6933185518980031
      , discriminator loss: 0.6932232868671417
372 100%|██████████| 469/469 [00:23<00:00, 19.59it/s
      ]
373 83%|███████| 390/469 [00:19<00:04, 19.50it/s
      ]Step 89500: Generator loss: 0.6933265761137004
      , discriminator loss: 0.6931928855180741
374 100%|██████████| 469/469 [00:23<00:00, 19.59it/s
      ]
375 90%|███████| 422/469 [00:21<00:02, 19.54it/s
      ]Step 90000: Generator loss: 0.693429260969162,
      discriminator loss: 0.6931886080503455
376 100%|██████████| 469/469 [00:23<00:00, 19.57it/s
      ]
377 96%|███████| 452/469 [00:23<00:00, 19.60it/s
      ]Step 90500: Generator loss: 0.6931951893568041
      , discriminator loss: 0.6932250983715058
378 100%|██████████| 469/469 [00:23<00:00, 19.58it/s
      ]
379 100%|██████████| 469/469 [00:23<00:00, 19.57it/s
      ]
380 3%||| 14/469 [00:00<00:23, 19.47it/s]
      Step 91000: Generator loss: 0.6934550853967669,
      discriminator loss: 0.6931465818881987
381 100%|██████████| 469/469 [00:23<00:00, 19.57it/s
      ]
382 10%|█ 46/469 [00:02<00:21, 19.94it/s]
      Step 91500: Generator loss: 0.6933599162101743,
      discriminator loss: 0.6931895924806589
383 100%|██████████| 469/469 [00:23<00:00, 20.03it/s
      ]
384 16%|█ 76/469 [00:03<00:20, 19.63it/s]
      Step 92000: Generator loss: 0.6933515275716778,
      discriminator loss: 0.6932033774852755
385 100%|██████████| 469/469 [00:23<00:00, 19.60it/s
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385 ]
386 23%|██████| 108/469 [00:05<00:18, 19.57it/s
]Step 92500: Generator loss: 0.6933179830312728
, discriminator loss: 0.6932195528745648
387 100%|████████| 469/469 [00:23<00:00, 19.58it/s
]
388 29%|███     | 138/469 [00:07<00:16, 19.62it/s
]Step 93000: Generator loss: 0.6935177533626546
, discriminator loss: 0.6932120280265812
389 100%|████████| 469/469 [00:23<00:00, 19.59it/s
]
390 36%|██████  | 170/469 [00:08<00:15, 19.60it/s
]Step 93500: Generator loss: 0.6933608033657079
, discriminator loss: 0.6932061598300934
391 100%|████████| 469/469 [00:23<00:00, 19.57it/s
]
392
393 Process finished with exit code 0
394
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