

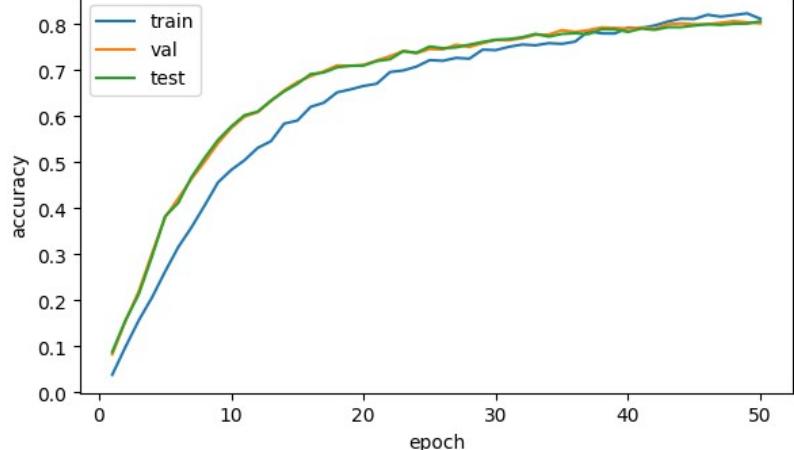
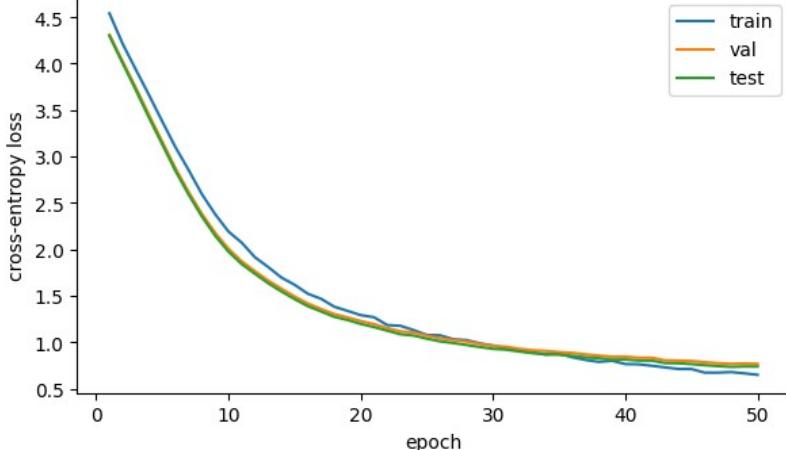
100%|██████████| 548M/548M [00:06<00:00, 88.0MB/s]

[VGG19] repeat seed=42

epoch 01/50	train loss 4.5398 acc 0.0376	val loss 4.3094 acc 0.0821	test loss 4.2982 acc 0.0874
epoch 02/50	train loss 4.2125 acc 0.0982	val loss 4.0223 acc 0.1544	test loss 4.0034 acc 0.1558
epoch 03/50	train loss 3.9338 acc 0.1556	val loss 3.7382 acc 0.2189	test loss 3.7139 acc 0.2124
epoch 04/50	train loss 3.6581 acc 0.2054	val loss 3.4439 acc 0.3009	test loss 3.4149 acc 0.2944
epoch 05/50	train loss 3.3748 acc 0.2621	val loss 3.1571 acc 0.3801	test loss 3.1278 acc 0.3823
epoch 06/50	train loss 3.0967 acc 0.3156	val loss 2.8697 acc 0.4216	test loss 2.8416 acc 0.4116
epoch 07/50	train loss 2.8496 acc 0.3586	val loss 2.6137 acc 0.4636	test loss 2.5850 acc 0.4678
epoch 08/50	train loss 2.5911 acc 0.4064	val loss 2.3784 acc 0.5012	test loss 2.3503 acc 0.5098
epoch 09/50	train loss 2.3758 acc 0.4560	val loss 2.1757 acc 0.5413	test loss 2.1447 acc 0.5483
epoch 10/50	train loss 2.1905 acc 0.4831	val loss 2.0045 acc 0.5740	test loss 1.9733 acc 0.5776
epoch 11/50	train loss 2.0706 acc 0.5042	val loss 1.8698 acc 0.5989	test loss 1.8491 acc 0.6021
epoch 12/50	train loss 1.9138 acc 0.5310	val loss 1.7633 acc 0.6087	test loss 1.7355 acc 0.6099
epoch 13/50	train loss 1.8082 acc 0.5454	val loss 1.6628 acc 0.6326	test loss 1.6343 acc 0.6338
epoch 14/50	train loss 1.6953 acc 0.5838	val loss 1.5754 acc 0.6561	test loss 1.5455 acc 0.6538
epoch 15/50	train loss 1.6172 acc 0.5904	val loss 1.4908 acc 0.6742	test loss 1.4626 acc 0.6704
epoch 16/50	train loss 1.5207 acc 0.6202	val loss 1.4155 acc 0.6869	test loss 1.3868 acc 0.6914
epoch 17/50	train loss 1.4461 acc 0.6292	val loss 1.3558 acc 0.6976	test loss 1.3299 acc 0.6948
epoch 18/50	train loss 1.3810 acc 0.6517	val loss 1.3017 acc 0.7103	test loss 1.2715 acc 0.7061
epoch 19/50	train loss 1.3362 acc 0.6580	val loss 1.2653 acc 0.7093	test loss 1.2377 acc 0.7095
epoch 20/50	train loss 1.2903 acc 0.6656	val loss 1.2263 acc 0.7113	test loss 1.1956 acc 0.7100
epoch 21/50	train loss 1.2679 acc 0.6705	val loss 1.1940 acc 0.7211	test loss 1.1615 acc 0.7197
epoch 22/50	train loss 1.1833 acc 0.6959	val loss 1.1510 acc 0.7303	test loss 1.1231 acc 0.7236
epoch 23/50	train loss 1.1754 acc 0.6993	val loss 1.1156 acc 0.7416	test loss 1.0841 acc 0.7412
epoch 24/50	train loss 1.1285 acc 0.7076	val loss 1.1030 acc 0.7367	test loss 1.0703 acc 0.7378
epoch 25/50	train loss 1.0768 acc 0.7218	val loss 1.0690 acc 0.7460	test loss 1.0365 acc 0.7515
epoch 26/50	train loss 1.0726 acc 0.7203	val loss 1.0408 acc 0.7450	test loss 1.0082 acc 0.7476
epoch 27/50	train loss 1.0301 acc 0.7267	val loss 1.0218 acc 0.7553	test loss 0.9896 acc 0.7495
epoch 28/50	train loss 1.0211 acc 0.7250	val loss 1.0052 acc 0.7584	test loss 0.9687 acc 0.7554
epoch 29/50	train loss 0.9862 acc 0.7445	val loss 0.9813 acc 0.7587	test loss 0.9470 acc 0.7612
epoch 30/50	train loss 0.9627 acc 0.7435	val loss 0.9574 acc 0.7655	test loss 0.9272 acc 0.7661
epoch 31/50	train loss 0.9309 acc 0.7509	val loss 0.9503 acc 0.7650	test loss 0.9186 acc 0.7676
epoch 32/50	train loss 0.9075 acc 0.7557	val loss 0.9272 acc 0.7694	test loss 0.8983 acc 0.7715
epoch 33/50	train loss 0.8903 acc 0.7540	val loss 0.9120 acc 0.7767	test loss 0.8804 acc 0.7788
epoch 34/50	train loss 0.8639 acc 0.7587	val loss 0.9039 acc 0.7772	test loss 0.8715 acc 0.7729
epoch 35/50	train loss 0.8744 acc 0.7572	val loss 0.8925 acc 0.7870	test loss 0.8639 acc 0.7788
epoch 36/50	train loss 0.8369 acc 0.7621	val loss 0.8839 acc 0.7831	test loss 0.8522 acc 0.7803
epoch 37/50	train loss 0.8078 acc 0.7846	val loss 0.8674 acc 0.7870	test loss 0.8357 acc 0.7783
epoch 38/50	train loss 0.7872 acc 0.7799	val loss 0.8543 acc 0.7929	test loss 0.8261 acc 0.7891
epoch 39/50	train loss 0.7995 acc 0.7797	val loss 0.8423 acc 0.7919	test loss 0.8103 acc 0.7886
epoch 40/50	train loss 0.7634 acc 0.7924	val loss 0.8432 acc 0.7904	test loss 0.8122 acc 0.7832
epoch 41/50	train loss 0.7613 acc 0.7916	val loss 0.8316 acc 0.7929	test loss 0.8010 acc 0.7905
epoch 42/50	train loss 0.7452 acc 0.7970	val loss 0.8314 acc 0.7899	test loss 0.8008 acc 0.7876
epoch 43/50	train loss 0.7277 acc 0.8056	val loss 0.8037 acc 0.7997	test loss 0.7740 acc 0.7935
epoch 44/50	train loss 0.7109 acc 0.8119	val loss 0.8012 acc 0.8017	test loss 0.7722 acc 0.7935
epoch 45/50	train loss 0.7098 acc 0.8112	val loss 0.7962 acc 0.7997	test loss 0.7631 acc 0.7969
epoch 46/50	train loss 0.6716 acc 0.8205	val loss 0.7836 acc 0.7997	test loss 0.7516 acc 0.7998
epoch 47/50	train loss 0.6714 acc 0.8163	val loss 0.7730 acc 0.8031	test loss 0.7414 acc 0.7983
epoch 48/50	train loss 0.6775 acc 0.8197	val loss 0.7661 acc 0.8065	test loss 0.7334 acc 0.8008
epoch 49/50	train loss 0.6634 acc 0.8234	val loss 0.7693 acc 0.8041	test loss 0.7374 acc 0.8013
epoch 50/50	train loss 0.6477 acc 0.8117	val loss 0.7663 acc 0.8017	test loss 0.7372 acc 0.8062

Final test loss: 0.7372, test acc: 0.8062

VGG19 (repeat seed=42)



example softmax top-5:  
 class\_023: 0.9298  
 class\_038: 0.0286  
 class\_012: 0.0118  
 class\_091: 0.0061  
 class\_092: 0.0046