

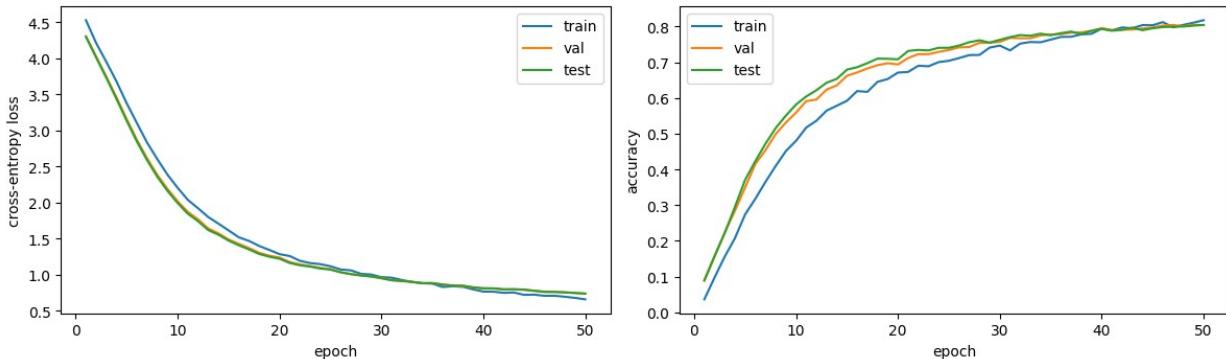
Split sizes (seed=123): train=4094, val=2047, test=2048

[VGG19] repeat seed=123

epoch	01/50	train loss	4.5290	acc	0.0364	val loss	4.3071	acc	0.0884	test loss	4.2994	acc	0.0898
epoch	02/50	train loss	4.2135	acc	0.0972	val loss	4.0267	acc	0.1558	test loss	4.0133	acc	0.1572
epoch	03/50	train loss	3.9520	acc	0.1558	val loss	3.7477	acc	0.2233	test loss	3.7293	acc	0.2217
epoch	04/50	train loss	3.6798	acc	0.2074	val loss	3.4593	acc	0.2838	test loss	3.4371	acc	0.2949
epoch	05/50	train loss	3.3773	acc	0.2738	val loss	3.1594	acc	0.3493	test loss	3.1338	acc	0.3706
epoch	06/50	train loss	3.1033	acc	0.3175	val loss	2.8707	acc	0.4148	test loss	2.8465	acc	0.4229
epoch	07/50	train loss	2.8324	acc	0.3649	val loss	2.6147	acc	0.4538	test loss	2.5884	acc	0.4717
epoch	08/50	train loss	2.6032	acc	0.4096	val loss	2.3855	acc	0.4988	test loss	2.3586	acc	0.5156
epoch	09/50	train loss	2.3881	acc	0.4511	val loss	2.1901	acc	0.5310	test loss	2.1629	acc	0.5503
epoch	10/50	train loss	2.2050	acc	0.4800	val loss	2.0190	acc	0.5589	test loss	1.9931	acc	0.5815
epoch	11/50	train loss	2.0378	acc	0.5171	val loss	1.8714	acc	0.5911	test loss	1.8453	acc	0.6040
epoch	12/50	train loss	1.9213	acc	0.5362	val loss	1.7678	acc	0.5955	test loss	1.7415	acc	0.6216
epoch	13/50	train loss	1.8000	acc	0.5645	val loss	1.6414	acc	0.6234	test loss	1.6184	acc	0.6426
epoch	14/50	train loss	1.7081	acc	0.5782	val loss	1.5735	acc	0.6351	test loss	1.5547	acc	0.6533
epoch	15/50	train loss	1.6143	acc	0.5921	val loss	1.4889	acc	0.6619	test loss	1.4723	acc	0.6792
epoch	16/50	train loss	1.5185	acc	0.6192	val loss	1.4275	acc	0.6712	test loss	1.4073	acc	0.6860
epoch	17/50	train loss	1.4684	acc	0.6170	val loss	1.3692	acc	0.6825	test loss	1.3507	acc	0.6973
epoch	18/50	train loss	1.3988	acc	0.6451	val loss	1.3043	acc	0.6917	test loss	1.2873	acc	0.7100
epoch	19/50	train loss	1.3427	acc	0.6529	val loss	1.2629	acc	0.6971	test loss	1.2492	acc	0.7095
epoch	20/50	train loss	1.2847	acc	0.6710	val loss	1.2385	acc	0.6937	test loss	1.2211	acc	0.7080
epoch	21/50	train loss	1.2589	acc	0.6727	val loss	1.1754	acc	0.7118	test loss	1.1618	acc	0.7314
epoch	22/50	train loss	1.1928	acc	0.6900	val loss	1.1429	acc	0.7225	test loss	1.1306	acc	0.7344
epoch	23/50	train loss	1.1608	acc	0.6886	val loss	1.1198	acc	0.7225	test loss	1.1126	acc	0.7329
epoch	24/50	train loss	1.1462	acc	0.7003	val loss	1.0944	acc	0.7289	test loss	1.0852	acc	0.7402
epoch	25/50	train loss	1.1169	acc	0.7040	val loss	1.0774	acc	0.7342	test loss	1.0705	acc	0.7402
epoch	26/50	train loss	1.0721	acc	0.7115	val loss	1.0354	acc	0.7416	test loss	1.0326	acc	0.7466
epoch	27/50	train loss	1.0600	acc	0.7198	val loss	1.0101	acc	0.7426	test loss	1.0068	acc	0.7559
epoch	28/50	train loss	1.0122	acc	0.7203	val loss	0.9915	acc	0.7543	test loss	0.9876	acc	0.7612
epoch	29/50	train loss	1.0015	acc	0.7408	val loss	0.9744	acc	0.7543	test loss	0.9757	acc	0.7549
epoch	30/50	train loss	0.9661	acc	0.7465	val loss	0.9556	acc	0.7567	test loss	0.9497	acc	0.7627
epoch	31/50	train loss	0.9584	acc	0.7330	val loss	0.9219	acc	0.7680	test loss	0.9239	acc	0.7700
epoch	32/50	train loss	0.9264	acc	0.7521	val loss	0.9128	acc	0.7670	test loss	0.9128	acc	0.7759
epoch	33/50	train loss	0.8993	acc	0.7565	val loss	0.9029	acc	0.7670	test loss	0.8987	acc	0.7739
epoch	34/50	train loss	0.8814	acc	0.7557	val loss	0.8824	acc	0.7748	test loss	0.8832	acc	0.7798
epoch	35/50	train loss	0.8760	acc	0.7633	val loss	0.8828	acc	0.7777	test loss	0.8833	acc	0.7754
epoch	36/50	train loss	0.8298	acc	0.7706	val loss	0.8624	acc	0.7782	test loss	0.8636	acc	0.7812
epoch	37/50	train loss	0.8396	acc	0.7711	val loss	0.8477	acc	0.7826	test loss	0.8494	acc	0.7856
epoch	38/50	train loss	0.8315	acc	0.7780	val loss	0.8434	acc	0.7831	test loss	0.8478	acc	0.7788
epoch	39/50	train loss	0.7964	acc	0.7794	val loss	0.8217	acc	0.7880	test loss	0.8246	acc	0.7876
epoch	40/50	train loss	0.7653	acc	0.7941	val loss	0.8061	acc	0.7953	test loss	0.8131	acc	0.7930
epoch	41/50	train loss	0.7643	acc	0.7890	val loss	0.8073	acc	0.7899	test loss	0.8109	acc	0.7881
epoch	42/50	train loss	0.7482	acc	0.7973	val loss	0.7958	acc	0.7909	test loss	0.7970	acc	0.7905
epoch	43/50	train loss	0.7531	acc	0.7948	val loss	0.7954	acc	0.7914	test loss	0.7992	acc	0.7969
epoch	44/50	train loss	0.7204	acc	0.8039	val loss	0.7893	acc	0.7943	test loss	0.7935	acc	0.7896
epoch	45/50	train loss	0.7235	acc	0.8034	val loss	0.7762	acc	0.7973	test loss	0.7780	acc	0.7949
epoch	46/50	train loss	0.7070	acc	0.8122	val loss	0.7586	acc	0.8026	test loss	0.7641	acc	0.7983
epoch	47/50	train loss	0.7078	acc	0.7975	val loss	0.7597	acc	0.8041	test loss	0.7615	acc	0.7993
epoch	48/50	train loss	0.6940	acc	0.8043	val loss	0.7542	acc	0.8007	test loss	0.7551	acc	0.7998
epoch	49/50	train loss	0.6783	acc	0.8105	val loss	0.7453	acc	0.8051	test loss	0.7471	acc	0.8022
epoch	50/50	train loss	0.6581	acc	0.8175	val loss	0.7375	acc	0.8036	test loss	0.7374	acc	0.8042

Final test loss: 0.7374, test acc: 0.8042

VGG19 (repeat seed=123)



example softmax top-5:

```
class_075: 0.3871
class_018: 0.1595
class_074: 0.1126
class_096: 0.0636
class_063: 0.0610
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