epoch: 1, steps: 0, train\_loss: 2.304, running\_acc: 9.4 %

epoch: 1, steps: 200, train\_loss: 2.300, running\_acc: 11.0 %

epoch: 1, steps: 400, train\_loss: 2.280, running\_acc: 13.2 %

epoch: 1, steps: 600, train\_loss: 2.182, running\_acc: 21.2 %

epoch: 1, steps: 800, train\_loss: 2.057, running\_acc: 26.3 %

epoch: 1, steps: 1000, train\_loss: 1.962, running\_acc: 30.0 %

epoch: 1, steps: 1200, train\_loss: 1.885, running\_acc: 31.6 %

epoch: 1, steps: 1400, train\_loss: 1.866, running\_acc: 33.3 %

Validation accuracy: 37.4 %

epoch: 2, steps: 0, train\_loss: 1.697, running\_acc: 37.5 %

epoch: 2, steps: 200, train\_loss: 1.746, running\_acc: 36.9 %

epoch: 2, steps: 400, train\_loss: 1.684, running\_acc: 39.1 %

epoch: 2, steps: 600, train\_loss: 1.630, running\_acc: 40.8 %

epoch: 2, steps: 800, train\_loss: 1.593, running\_acc: 42.4 %

epoch: 2, steps: 1000, train\_loss: 1.558, running\_acc: 44.6 %

epoch: 2, steps: 1200, train\_loss: 1.526, running\_acc: 44.4 %

epoch: 2, steps: 1400, train\_loss: 1.530, running\_acc: 44.8 %

Validation accuracy: 48.5 %

epoch: 3, steps: 0, train\_loss: 1.350, running\_acc: 50.0 %

epoch: 3, steps: 200, train\_loss: 1.476, running\_acc: 46.8 %

epoch: 3, steps: 400, train\_loss: 1.449, running\_acc: 47.1 %

epoch: 3, steps: 600, train\_loss: 1.453, running\_acc: 47.7 %

epoch: 3, steps: 800, train\_loss: 1.413, running\_acc: 49.1 %

epoch: 3, steps: 1000, train\_loss: 1.404, running\_acc: 49.5 %

epoch: 3, steps: 1200, train\_loss: 1.379, running\_acc: 51.0 %

epoch: 3, steps: 1400, train\_loss: 1.396, running\_acc: 48.9 %

Validation accuracy: 52.9 %

epoch: 4, steps: 0, train\_loss: 1.205, running\_acc: 56.2 %

epoch: 4, steps: 200, train\_loss: 1.344, running\_acc: 51.8 %

epoch: 4, steps: 400, train\_loss: 1.330, running\_acc: 51.8 %

epoch: 4, steps: 600, train\_loss: 1.316, running\_acc: 53.0 %

epoch: 4, steps: 800, train\_loss: 1.301, running\_acc: 53.8 %

epoch: 4, steps: 1000, train\_loss: 1.284, running\_acc: 54.6 %

epoch: 4, steps: 1200, train\_loss: 1.273, running\_acc: 54.6 %

epoch: 4, steps: 1400, train\_loss: 1.283, running\_acc: 53.5 %

Validation accuracy: 57.1 %

epoch: 5, steps: 0, train\_loss: 1.091, running\_acc: 56.2 %

epoch: 5, steps: 200, train\_loss: 1.228, running\_acc: 55.8 %

epoch: 5, steps: 400, train\_loss: 1.228, running\_acc: 55.8 %

epoch: 5, steps: 600, train\_loss: 1.216, running\_acc: 56.7 %

epoch: 5, steps: 800, train\_loss: 1.196, running\_acc: 58.2 %

epoch: 5, steps: 1000, train\_loss: 1.196, running\_acc: 57.9 %

epoch: 5, steps: 1200, train\_loss: 1.174, running\_acc: 57.7 %

epoch: 5, steps: 1400, train\_loss: 1.188, running\_acc: 57.1 %

Validation accuracy: 61.7 %

epoch: 6, steps: 0, train\_loss: 1.030, running\_acc: 59.4 %

epoch: 6, steps: 200, train\_loss: 1.140, running\_acc: 59.0 %

epoch: 6, steps: 400, train\_loss: 1.125, running\_acc: 60.4 %

epoch: 6, steps: 600, train\_loss: 1.124, running\_acc: 60.1 %

epoch: 6, steps: 800, train\_loss: 1.106, running\_acc: 61.4 %

epoch: 6, steps: 1000, train\_loss: 1.104, running\_acc: 61.2 %

epoch: 6, steps: 1200, train\_loss: 1.090, running\_acc: 61.0 %

epoch: 6, steps: 1400, train\_loss: 1.125, running\_acc: 59.6 %

Validation accuracy: 64.4 %

epoch: 7, steps: 0, train\_loss: 1.030, running\_acc: 71.9 %

epoch: 7, steps: 200, train\_loss: 1.044, running\_acc: 63.0 %

epoch: 7, steps: 400, train\_loss: 1.044, running\_acc: 62.9 %

epoch: 7, steps: 600, train\_loss: 1.040, running\_acc: 64.2 %

epoch: 7, steps: 800, train\_loss: 1.024, running\_acc: 64.1 %

epoch: 7, steps: 1000, train\_loss: 1.034, running\_acc: 63.5 %

epoch: 7, steps: 1200, train\_loss: 1.018, running\_acc: 64.1 %

epoch: 7, steps: 1400, train\_loss: 1.049, running\_acc: 62.8 %

Validation accuracy: 67.7 %

epoch: 8, steps: 0, train\_loss: 0.952, running\_acc: 65.6 %

epoch: 8, steps: 200, train\_loss: 0.965, running\_acc: 65.7 %

epoch: 8, steps: 400, train\_loss: 0.973, running\_acc: 65.3 %

epoch: 8, steps: 600, train\_loss: 0.979, running\_acc: 65.3 %

epoch: 8, steps: 800, train\_loss: 0.967, running\_acc: 66.1 %

epoch: 8, steps: 1000, train\_loss: 0.972, running\_acc: 65.8 %

epoch: 8, steps: 1200, train\_loss: 0.946, running\_acc: 66.6 %

epoch: 8, steps: 1400, train\_loss: 0.981, running\_acc: 64.8 %

Validation accuracy: 67.9 %

epoch: 9, steps: 0, train\_loss: 0.931, running\_acc: 62.5 %

epoch: 9, steps: 200, train\_loss: 0.917, running\_acc: 67.1 %

epoch: 9, steps: 400, train\_loss: 0.920, running\_acc: 67.8 %

epoch: 9, steps: 600, train\_loss: 0.927, running\_acc: 66.9 %

epoch: 9, steps: 800, train\_loss: 0.899, running\_acc: 68.5 %

epoch: 9, steps: 1000, train\_loss: 0.916, running\_acc: 68.0 %

epoch: 9, steps: 1200, train\_loss: 0.901, running\_acc: 68.3 %

epoch: 9, steps: 1400, train\_loss: 0.929, running\_acc: 67.5 %

Validation accuracy: 70.0 %

epoch: 10, steps: 0, train\_loss: 0.926, running\_acc: 71.9 %

epoch: 10, steps: 200, train\_loss: 0.861, running\_acc: 69.6 %

epoch: 10, steps: 400, train\_loss: 0.875, running\_acc: 69.7 %

epoch: 10, steps: 600, train\_loss: 0.864, running\_acc: 70.0 %

epoch: 10, steps: 800, train\_loss: 0.854, running\_acc: 70.3 %

epoch: 10, steps: 1000, train\_loss: 0.870, running\_acc: 69.1 %

epoch: 10, steps: 1200, train\_loss: 0.843, running\_acc: 70.0 %

epoch: 10, steps: 1400, train\_loss: 0.875, running\_acc: 69.2 %

Validation accuracy: 71.7 %

epoch: 11, steps: 0, train\_loss: 0.814, running\_acc: 68.8 %

epoch: 11, steps: 200, train\_loss: 0.801, running\_acc: 71.2 %

epoch: 11, steps: 400, train\_loss: 0.816, running\_acc: 71.5 %

epoch: 11, steps: 600, train\_loss: 0.821, running\_acc: 70.8 %

epoch: 11, steps: 800, train\_loss: 0.820, running\_acc: 71.1 %

epoch: 11, steps: 1000, train\_loss: 0.818, running\_acc: 71.4 %

epoch: 11, steps: 1200, train\_loss: 0.789, running\_acc: 72.0 %

epoch: 11, steps: 1400, train\_loss: 0.837, running\_acc: 70.5 %

Validation accuracy: 72.6 %

epoch: 12, steps: 0, train\_loss: 0.718, running\_acc: 78.1 %

epoch: 12, steps: 200, train\_loss: 0.759, running\_acc: 73.2 %

epoch: 12, steps: 400, train\_loss: 0.781, running\_acc: 72.6 %

epoch: 12, steps: 600, train\_loss: 0.773, running\_acc: 72.4 %

epoch: 12, steps: 800, train\_loss: 0.765, running\_acc: 73.0 %

epoch: 12, steps: 1000, train\_loss: 0.768, running\_acc: 72.3 %

epoch: 12, steps: 1200, train\_loss: 0.746, running\_acc: 73.4 %

epoch: 12, steps: 1400, train\_loss: 0.797, running\_acc: 71.7 %

Validation accuracy: 74.3 %

epoch: 13, steps: 0, train\_loss: 0.605, running\_acc: 81.2 %

epoch: 13, steps: 200, train\_loss: 0.723, running\_acc: 74.3 %

epoch: 13, steps: 400, train\_loss: 0.741, running\_acc: 74.4 %

epoch: 13, steps: 600, train\_loss: 0.720, running\_acc: 74.9 %

epoch: 13, steps: 800, train\_loss: 0.728, running\_acc: 74.8 %

epoch: 13, steps: 1000, train\_loss: 0.728, running\_acc: 75.1 %

epoch: 13, steps: 1200, train\_loss: 0.701, running\_acc: 75.2 %

epoch: 13, steps: 1400, train\_loss: 0.746, running\_acc: 73.7 %

Validation accuracy: 73.2 %

epoch: 14, steps: 0, train\_loss: 0.627, running\_acc: 78.1 %

epoch: 14, steps: 200, train\_loss: 0.686, running\_acc: 76.2 %

epoch: 14, steps: 400, train\_loss: 0.691, running\_acc: 76.0 %

epoch: 14, steps: 600, train\_loss: 0.692, running\_acc: 75.8 %

epoch: 14, steps: 800, train\_loss: 0.688, running\_acc: 75.7 %

epoch: 14, steps: 1000, train\_loss: 0.693, running\_acc: 75.5 %

epoch: 14, steps: 1200, train\_loss: 0.673, running\_acc: 76.0 %

epoch: 14, steps: 1400, train\_loss: 0.715, running\_acc: 74.8 %

Validation accuracy: 73.4 %

epoch: 15, steps: 0, train\_loss: 0.541, running\_acc: 81.2 %

epoch: 15, steps: 200, train\_loss: 0.644, running\_acc: 77.8 %

epoch: 15, steps: 400, train\_loss: 0.658, running\_acc: 76.8 %

epoch: 15, steps: 600, train\_loss: 0.649, running\_acc: 77.3 %

epoch: 15, steps: 800, train\_loss: 0.640, running\_acc: 77.8 %

epoch: 15, steps: 1000, train\_loss: 0.662, running\_acc: 76.6 %

epoch: 15, steps: 1200, train\_loss: 0.649, running\_acc: 77.3 %

epoch: 15, steps: 1400, train\_loss: 0.663, running\_acc: 76.6 %

Validation accuracy: 74.3 %

epoch: 16, steps: 0, train\_loss: 0.506, running\_acc: 78.1 %

epoch: 16, steps: 200, train\_loss: 0.615, running\_acc: 78.6 %

epoch: 16, steps: 400, train\_loss: 0.634, running\_acc: 77.2 %

epoch: 16, steps: 600, train\_loss: 0.605, running\_acc: 78.9 %

epoch: 16, steps: 800, train\_loss: 0.624, running\_acc: 78.1 %

epoch: 16, steps: 1000, train\_loss: 0.624, running\_acc: 78.2 %

epoch: 16, steps: 1200, train\_loss: 0.601, running\_acc: 78.5 %

epoch: 16, steps: 1400, train\_loss: 0.630, running\_acc: 77.9 %

Validation accuracy: 75.2 %

epoch: 17, steps: 0, train\_loss: 0.414, running\_acc: 84.4 %

epoch: 17, steps: 200, train\_loss: 0.561, running\_acc: 80.2 %

epoch: 17, steps: 400, train\_loss: 0.587, running\_acc: 79.4 %

epoch: 17, steps: 600, train\_loss: 0.587, running\_acc: 79.5 %

epoch: 17, steps: 800, train\_loss: 0.578, running\_acc: 79.9 %

epoch: 17, steps: 1000, train\_loss: 0.579, running\_acc: 80.0 %

epoch: 17, steps: 1200, train\_loss: 0.565, running\_acc: 80.0 %

epoch: 17, steps: 1400, train\_loss: 0.601, running\_acc: 78.8 %

Validation accuracy: 76.1 %

epoch: 18, steps: 0, train\_loss: 0.646, running\_acc: 75.0 %

epoch: 18, steps: 200, train\_loss: 0.540, running\_acc: 80.7 %

epoch: 18, steps: 400, train\_loss: 0.559, running\_acc: 79.8 %

epoch: 18, steps: 600, train\_loss: 0.537, running\_acc: 80.9 %

epoch: 18, steps: 800, train\_loss: 0.540, running\_acc: 81.5 %

epoch: 18, steps: 1000, train\_loss: 0.546, running\_acc: 80.9 %

epoch: 18, steps: 1200, train\_loss: 0.528, running\_acc: 81.5 %

epoch: 18, steps: 1400, train\_loss: 0.563, running\_acc: 80.2 %

Validation accuracy: 75.1 %

epoch: 19, steps: 0, train\_loss: 0.335, running\_acc: 90.6 %

epoch: 19, steps: 200, train\_loss: 0.509, running\_acc: 82.0 %

epoch: 19, steps: 400, train\_loss: 0.529, running\_acc: 81.4 %

epoch: 19, steps: 600, train\_loss: 0.524, running\_acc: 81.5 %

epoch: 19, steps: 800, train\_loss: 0.520, running\_acc: 82.5 %

epoch: 19, steps: 1000, train\_loss: 0.520, running\_acc: 82.1 %

epoch: 19, steps: 1200, train\_loss: 0.492, running\_acc: 82.5 %

epoch: 19, steps: 1400, train\_loss: 0.524, running\_acc: 81.1 %

Validation accuracy: 74.7 %

epoch: 20, steps: 0, train\_loss: 0.453, running\_acc: 87.5 %

epoch: 20, steps: 200, train\_loss: 0.487, running\_acc: 83.2 %

epoch: 20, steps: 400, train\_loss: 0.506, running\_acc: 82.0 %

epoch: 20, steps: 600, train\_loss: 0.501, running\_acc: 82.5 %

epoch: 20, steps: 800, train\_loss: 0.493, running\_acc: 82.7 %

epoch: 20, steps: 1000, train\_loss: 0.501, running\_acc: 82.2 %

epoch: 20, steps: 1200, train\_loss: 0.474, running\_acc: 83.7 %

epoch: 20, steps: 1400, train\_loss: 0.491, running\_acc: 82.4 %

Validation accuracy: 76.3 %

best validation accuracy is: (76.3, 20)

Finished Training