Final Accuracy above 70%:

image\_classification(0.001, 0.9, 20, 0)

epoch: 1, steps: 0, train\_loss: 2.304, running\_acc: 6.2 %

epoch: 1, steps: 200, train\_loss: 2.301, running\_acc: 12.4 %

epoch: 1, steps: 400, train\_loss: 2.290, running\_acc: 12.8 %

epoch: 1, steps: 600, train\_loss: 2.197, running\_acc: 19.1 %

epoch: 1, steps: 800, train\_loss: 2.045, running\_acc: 26.9 %

epoch: 1, steps: 1000, train\_loss: 1.963, running\_acc: 29.3 %

epoch: 1, steps: 1200, train\_loss: 1.892, running\_acc: 30.9 %

epoch: 1, steps: 1400, train\_loss: 1.848, running\_acc: 33.4 %

Validation accuracy: 38.6 %

epoch: 2, steps: 0, train\_loss: 1.667, running\_acc: 37.5 %

epoch: 2, steps: 200, train\_loss: 1.691, running\_acc: 39.6 %

epoch: 2, steps: 400, train\_loss: 1.652, running\_acc: 40.7 %

epoch: 2, steps: 600, train\_loss: 1.604, running\_acc: 42.5 %

epoch: 2, steps: 800, train\_loss: 1.539, running\_acc: 44.8 %

epoch: 2, steps: 1000, train\_loss: 1.514, running\_acc: 46.1 %

epoch: 2, steps: 1200, train\_loss: 1.477, running\_acc: 47.2 %

epoch: 2, steps: 1400, train\_loss: 1.480, running\_acc: 46.9 %

Validation accuracy: 49.3 %

epoch: 3, steps: 0, train\_loss: 1.351, running\_acc: 59.4 %

epoch: 3, steps: 200, train\_loss: 1.411, running\_acc: 49.5 %

epoch: 3, steps: 400, train\_loss: 1.387, running\_acc: 50.2 %

epoch: 3, steps: 600, train\_loss: 1.368, running\_acc: 51.0 %

epoch: 3, steps: 800, train\_loss: 1.330, running\_acc: 52.4 %

epoch: 3, steps: 1000, train\_loss: 1.316, running\_acc: 53.7 %

epoch: 3, steps: 1200, train\_loss: 1.292, running\_acc: 54.3 %

epoch: 3, steps: 1400, train\_loss: 1.300, running\_acc: 53.7 %

Validation accuracy: 55.5 %

epoch: 4, steps: 0, train\_loss: 1.199, running\_acc: 59.4 %

epoch: 4, steps: 200, train\_loss: 1.226, running\_acc: 56.8 %

epoch: 4, steps: 400, train\_loss: 1.209, running\_acc: 56.7 %

epoch: 4, steps: 600, train\_loss: 1.190, running\_acc: 57.8 %

epoch: 4, steps: 800, train\_loss: 1.155, running\_acc: 59.1 %

epoch: 4, steps: 1000, train\_loss: 1.153, running\_acc: 59.4 %

epoch: 4, steps: 1200, train\_loss: 1.128, running\_acc: 60.2 %

epoch: 4, steps: 1400, train\_loss: 1.139, running\_acc: 60.1 %

Validation accuracy: 60.8 %

epoch: 5, steps: 0, train\_loss: 1.137, running\_acc: 65.6 %

epoch: 5, steps: 200, train\_loss: 1.057, running\_acc: 62.9 %

epoch: 5, steps: 400, train\_loss: 1.051, running\_acc: 63.0 %

epoch: 5, steps: 600, train\_loss: 1.037, running\_acc: 63.5 %

epoch: 5, steps: 800, train\_loss: 1.004, running\_acc: 65.0 %

epoch: 5, steps: 1000, train\_loss: 1.004, running\_acc: 65.0 %

epoch: 5, steps: 1200, train\_loss: 0.976, running\_acc: 66.0 %

epoch: 5, steps: 1400, train\_loss: 0.996, running\_acc: 65.2 %

Validation accuracy: 64.7 %

epoch: 6, steps: 0, train\_loss: 1.020, running\_acc: 68.8 %

epoch: 6, steps: 200, train\_loss: 0.914, running\_acc: 68.2 %

epoch: 6, steps: 400, train\_loss: 0.918, running\_acc: 67.6 %

epoch: 6, steps: 600, train\_loss: 0.902, running\_acc: 68.8 %

epoch: 6, steps: 800, train\_loss: 0.873, running\_acc: 70.0 %

epoch: 6, steps: 1000, train\_loss: 0.872, running\_acc: 70.1 %

epoch: 6, steps: 1200, train\_loss: 0.848, running\_acc: 70.1 %

epoch: 6, steps: 1400, train\_loss: 0.872, running\_acc: 69.3 %

Validation accuracy: 66.3 %

epoch: 7, steps: 0, train\_loss: 0.876, running\_acc: 71.9 %

epoch: 7, steps: 200, train\_loss: 0.789, running\_acc: 72.8 %

epoch: 7, steps: 400, train\_loss: 0.803, running\_acc: 72.0 %

epoch: 7, steps: 600, train\_loss: 0.781, running\_acc: 73.1 %

epoch: 7, steps: 800, train\_loss: 0.758, running\_acc: 74.3 %

epoch: 7, steps: 1000, train\_loss: 0.758, running\_acc: 74.0 %

epoch: 7, steps: 1200, train\_loss: 0.728, running\_acc: 74.7 %

epoch: 7, steps: 1400, train\_loss: 0.757, running\_acc: 73.3 %

Validation accuracy: 68.4 %

epoch: 8, steps: 0, train\_loss: 0.686, running\_acc: 68.8 %

epoch: 8, steps: 200, train\_loss: 0.673, running\_acc: 77.0 %

epoch: 8, steps: 400, train\_loss: 0.693, running\_acc: 75.8 %

epoch: 8, steps: 600, train\_loss: 0.664, running\_acc: 77.3 %

epoch: 8, steps: 800, train\_loss: 0.649, running\_acc: 78.4 %

epoch: 8, steps: 1000, train\_loss: 0.648, running\_acc: 78.0 %

epoch: 8, steps: 1200, train\_loss: 0.609, running\_acc: 79.2 %

epoch: 8, steps: 1400, train\_loss: 0.643, running\_acc: 77.7 %

Validation accuracy: 70.4 %

epoch: 9, steps: 0, train\_loss: 0.519, running\_acc: 84.4 %

epoch: 9, steps: 200, train\_loss: 0.557, running\_acc: 81.5 %

epoch: 9, steps: 400, train\_loss: 0.582, running\_acc: 79.2 %

epoch: 9, steps: 600, train\_loss: 0.546, running\_acc: 81.5 %

epoch: 9, steps: 800, train\_loss: 0.535, running\_acc: 81.9 %

epoch: 9, steps: 1000, train\_loss: 0.537, running\_acc: 82.2 %

epoch: 9, steps: 1200, train\_loss: 0.493, running\_acc: 83.4 %

epoch: 9, steps: 1400, train\_loss: 0.521, running\_acc: 82.4 %

Validation accuracy: 70.6 %

epoch: 10, steps: 0, train\_loss: 0.384, running\_acc: 84.4 %

epoch: 10, steps: 200, train\_loss: 0.440, running\_acc: 85.5 %

epoch: 10, steps: 400, train\_loss: 0.464, running\_acc: 83.9 %

epoch: 10, steps: 600, train\_loss: 0.428, running\_acc: 85.3 %

epoch: 10, steps: 800, train\_loss: 0.424, running\_acc: 85.7 %

epoch: 10, steps: 1000, train\_loss: 0.418, running\_acc: 86.5 %

epoch: 10, steps: 1200, train\_loss: 0.387, running\_acc: 87.2 %

epoch: 10, steps: 1400, train\_loss: 0.398, running\_acc: 86.5 %

Validation accuracy: 69.0 %

epoch: 11, steps: 0, train\_loss: 0.298, running\_acc: 87.5 %

epoch: 11, steps: 200, train\_loss: 0.332, running\_acc: 89.4 %

epoch: 11, steps: 400, train\_loss: 0.354, running\_acc: 87.9 %

epoch: 11, steps: 600, train\_loss: 0.323, running\_acc: 89.2 %

epoch: 11, steps: 800, train\_loss: 0.329, running\_acc: 88.9 %

epoch: 11, steps: 1000, train\_loss: 0.334, running\_acc: 89.1 %

epoch: 11, steps: 1200, train\_loss: 0.304, running\_acc: 89.8 %

epoch: 11, steps: 1400, train\_loss: 0.331, running\_acc: 88.4 %

Validation accuracy: 67.7 %

epoch: 12, steps: 0, train\_loss: 0.174, running\_acc: 96.9 %

epoch: 12, steps: 200, train\_loss: 0.270, running\_acc: 90.9 %

epoch: 12, steps: 400, train\_loss: 0.301, running\_acc: 89.3 %

epoch: 12, steps: 600, train\_loss: 0.263, running\_acc: 91.0 %

epoch: 12, steps: 800, train\_loss: 0.266, running\_acc: 90.7 %

epoch: 12, steps: 1000, train\_loss: 0.284, running\_acc: 90.0 %

epoch: 12, steps: 1200, train\_loss: 0.247, running\_acc: 91.3 %

epoch: 12, steps: 1400, train\_loss: 0.285, running\_acc: 90.0 %

Validation accuracy: 67.2 %

epoch: 13, steps: 0, train\_loss: 0.195, running\_acc: 90.6 %

epoch: 13, steps: 200, train\_loss: 0.218, running\_acc: 92.3 %

epoch: 13, steps: 400, train\_loss: 0.242, running\_acc: 91.5 %

epoch: 13, steps: 600, train\_loss: 0.225, running\_acc: 92.4 %

epoch: 13, steps: 800, train\_loss: 0.222, running\_acc: 92.1 %

epoch: 13, steps: 1000, train\_loss: 0.197, running\_acc: 92.7 %

epoch: 13, steps: 1200, train\_loss: 0.199, running\_acc: 93.4 %

epoch: 13, steps: 1400, train\_loss: 0.220, running\_acc: 92.1 %

Validation accuracy: 67.4 %

epoch: 14, steps: 0, train\_loss: 0.109, running\_acc: 93.8 %

epoch: 14, steps: 200, train\_loss: 0.174, running\_acc: 94.3 %

epoch: 14, steps: 400, train\_loss: 0.168, running\_acc: 94.0 %

epoch: 14, steps: 600, train\_loss: 0.164, running\_acc: 94.1 %

epoch: 14, steps: 800, train\_loss: 0.163, running\_acc: 94.4 %

epoch: 14, steps: 1000, train\_loss: 0.140, running\_acc: 95.4 %

epoch: 14, steps: 1200, train\_loss: 0.168, running\_acc: 94.0 %

epoch: 14, steps: 1400, train\_loss: 0.150, running\_acc: 94.5 %

Validation accuracy: 69.0 %

epoch: 15, steps: 0, train\_loss: 0.097, running\_acc: 96.9 %

epoch: 15, steps: 200, train\_loss: 0.126, running\_acc: 95.5 %

epoch: 15, steps: 400, train\_loss: 0.155, running\_acc: 94.6 %

epoch: 15, steps: 600, train\_loss: 0.123, running\_acc: 95.7 %

epoch: 15, steps: 800, train\_loss: 0.127, running\_acc: 95.6 %

epoch: 15, steps: 1000, train\_loss: 0.101, running\_acc: 96.6 %

epoch: 15, steps: 1200, train\_loss: 0.107, running\_acc: 96.1 %

epoch: 15, steps: 1400, train\_loss: 0.106, running\_acc: 96.5 %

Validation accuracy: 69.6 %

epoch: 16, steps: 0, train\_loss: 0.088, running\_acc: 96.9 %

epoch: 16, steps: 200, train\_loss: 0.089, running\_acc: 96.9 %

epoch: 16, steps: 400, train\_loss: 0.107, running\_acc: 96.2 %

epoch: 16, steps: 600, train\_loss: 0.101, running\_acc: 96.6 %

epoch: 16, steps: 800, train\_loss: 0.094, running\_acc: 97.2 %

epoch: 16, steps: 1000, train\_loss: 0.086, running\_acc: 97.1 %

epoch: 16, steps: 1200, train\_loss: 0.084, running\_acc: 97.0 %

epoch: 16, steps: 1400, train\_loss: 0.084, running\_acc: 97.1 %

Validation accuracy: 68.5 %

epoch: 17, steps: 0, train\_loss: 0.062, running\_acc: 96.9 %

epoch: 17, steps: 200, train\_loss: 0.073, running\_acc: 97.6 %

epoch: 17, steps: 400, train\_loss: 0.075, running\_acc: 97.3 %

epoch: 17, steps: 600, train\_loss: 0.082, running\_acc: 97.1 %

epoch: 17, steps: 800, train\_loss: 0.079, running\_acc: 97.2 %

epoch: 17, steps: 1000, train\_loss: 0.083, running\_acc: 97.2 %

epoch: 17, steps: 1200, train\_loss: 0.071, running\_acc: 97.7 %

epoch: 17, steps: 1400, train\_loss: 0.064, running\_acc: 97.9 %

Validation accuracy: 71.1 %

epoch: 18, steps: 0, train\_loss: 0.019, running\_acc: 100.0 %

epoch: 18, steps: 200, train\_loss: 0.048, running\_acc: 98.5 %

epoch: 18, steps: 400, train\_loss: 0.057, running\_acc: 98.1 %

epoch: 18, steps: 600, train\_loss: 0.060, running\_acc: 98.0 %

epoch: 18, steps: 800, train\_loss: 0.049, running\_acc: 98.3 %

epoch: 18, steps: 1000, train\_loss: 0.051, running\_acc: 98.3 %

epoch: 18, steps: 1200, train\_loss: 0.049, running\_acc: 98.2 %

epoch: 18, steps: 1400, train\_loss: 0.054, running\_acc: 98.2 %

Validation accuracy: 69.1 %

epoch: 19, steps: 0, train\_loss: 0.118, running\_acc: 96.9 %

epoch: 19, steps: 200, train\_loss: 0.037, running\_acc: 98.9 %

epoch: 19, steps: 400, train\_loss: 0.051, running\_acc: 98.3 %

epoch: 19, steps: 600, train\_loss: 0.053, running\_acc: 98.2 %

epoch: 19, steps: 800, train\_loss: 0.046, running\_acc: 98.6 %

epoch: 19, steps: 1000, train\_loss: 0.041, running\_acc: 98.8 %

epoch: 19, steps: 1200, train\_loss: 0.052, running\_acc: 98.3 %

epoch: 19, steps: 1400, train\_loss: 0.040, running\_acc: 98.8 %

Validation accuracy: 68.6 %

epoch: 20, steps: 0, train\_loss: 0.039, running\_acc: 100.0 %

epoch: 20, steps: 200, train\_loss: 0.030, running\_acc: 99.1 %

epoch: 20, steps: 400, train\_loss: 0.033, running\_acc: 98.9 %

epoch: 20, steps: 600, train\_loss: 0.044, running\_acc: 98.6 %

epoch: 20, steps: 800, train\_loss: 0.037, running\_acc: 98.8 %

epoch: 20, steps: 1000, train\_loss: 0.039, running\_acc: 98.8 %

epoch: 20, steps: 1200, train\_loss: 0.035, running\_acc: 98.9 %

epoch: 20, steps: 1400, train\_loss: 0.037, running\_acc: 98.7 %

Validation accuracy: 70.8 %

best validation accuracy is: (71.1, 17)

Finished Training