```
------------------------------------------------------------------
| epoch   1 |    200 /    527 batches |     7.85 ms/batch | loss   0.6912 |
| epoch   1 |    400 /    527 batches |     6.66 ms/batch | loss   0.6858 |
------------------------------------------------------------------
| end of epoch  1 | time: 3.83s | valid loss 0.6943 | valid acc  0.53 |
------------------------------------------------------------------
| epoch   2 |    200 /    527 batches |     7.20 ms/batch | loss   0.6908 |
| epoch   2 |    400 /    527 batches |     7.15 ms/batch | loss   0.6855 |
------------------------------------------------------------------
| end of epoch  2 | time: 3.81s | valid loss 0.6957 | valid acc  0.51 |
------------------------------------------------------------------
| epoch   3 |    200 /    527 batches |     7.32 ms/batch | loss   0.6903 |
| epoch   3 |    400 /    527 batches |     7.35 ms/batch | loss   0.6855 |
------------------------------------------------------------------
| end of epoch  3 | time: 3.85s | valid loss 0.6192 | valid acc  0.68 |
------------------------------------------------------------------
| epoch   4 |    200 /    527 batches |     7.24 ms/batch | loss   0.6300 |
| epoch   4 |    400 /    527 batches |     7.19 ms/batch | loss   0.6793 |
------------------------------------------------------------------
| end of epoch  4 | time: 3.80s | valid loss 0.7006 | valid acc  0.53 |
------------------------------------------------------------------
| epoch   5 |    200 /    527 batches |     7.29 ms/batch | loss   0.6642 |
| epoch   5 |    400 /    527 batches |     7.34 ms/batch | loss   0.5413 |
------------------------------------------------------------------
| end of epoch  5 | time: 3.84s | valid loss 0.5438 | valid acc  0.78 |
------------------------------------------------------------------
| epoch   6 |    200 /    527 batches |     7.52 ms/batch | loss   0.4323 |
| epoch   6 |    400 /    527 batches |     7.46 ms/batch | loss   0.3418 |
------------------------------------------------------------------
| end of epoch  6 | time: 3.95s | valid loss 0.5306 | valid acc  0.82 |
------------------------------------------------------------------
| epoch   7 |    200 /    527 batches |     7.73 ms/batch | loss   0.2658 |
| epoch   7 |    400 /    527 batches |     7.30 ms/batch | loss   0.2339 |
------------------------------------------------------------------
| end of epoch  7 | time: 3.95s | valid loss 0.5415 | valid acc  0.81 |
------------------------------------------------------------------
| epoch   8 |    200 /    527 batches |     7.61 ms/batch | loss   0.2242 |
| epoch   8 |    400 /    527 batches |     7.58 ms/batch | loss   0.2035 |
------------------------------------------------------------------
| end of epoch  8 | time: 4.00s | valid loss 0.5087 | valid acc  0.83 |
------------------------------------------------------------------
| epoch   9 |    200 /    527 batches |     7.20 ms/batch | loss   0.1956 |
| epoch   9 |    400 /    527 batches |     6.92 ms/batch | loss   0.1819 |
------------------------------------------------------------------
| end of epoch  9 | time: 3.75s | valid loss 0.5428 | valid acc  0.83 |
------------------------------------------------------------------
```

```
| epoch   10 |    200 /    527 batches |     7.57 ms/batch | loss   0.1800 |
| epoch   10 |    400 /    527 batches |     7.32 ms/batch | loss   0.1874 |
-----------------------------------------------------------------------------
| end of epoch 10 | time: 3.88s | valid loss 0.4710 | valid acc   0.84 |
-----------------------------------------------------------------------------
| epoch   11 |    200 /    527 batches |     7.20 ms/batch | loss   0.1769 |
| epoch   11 |    400 /    527 batches |     7.11 ms/batch | loss   0.1625 |
-----------------------------------------------------------------------------
| end of epoch 11 | time: 3.76s | valid loss 0.5139 | valid acc   0.84 |
-----------------------------------------------------------------------------
| epoch   12 |    200 /    527 batches |     7.11 ms/batch | loss   0.1998 |
| epoch   12 |    400 /    527 batches |     7.14 ms/batch | loss   0.1607 |
-----------------------------------------------------------------------------
| end of epoch 12 | time: 3.75s | valid loss 0.5529 | valid acc   0.84 |
-----------------------------------------------------------------------------
| epoch   13 |    200 /    527 batches |     7.14 ms/batch | loss   0.1719 |
| epoch   13 |    400 /    527 batches |     7.09 ms/batch | loss   0.1655 |
-----------------------------------------------------------------------------
| end of epoch 13 | time: 3.75s | valid loss 0.5881 | valid acc   0.82 |
-----------------------------------------------------------------------------
| epoch   14 |    200 /    527 batches |     7.15 ms/batch | loss   0.1792 |
| epoch   14 |    400 /    527 batches |     7.12 ms/batch | loss   0.1566 |
-----------------------------------------------------------------------------
| end of epoch 14 | time: 3.76s | valid loss 0.5910 | valid acc   0.83 |
-----------------------------------------------------------------------------
| epoch   15 |    200 /    527 batches |     7.14 ms/batch | loss   0.2129 |
| epoch   15 |    400 /    527 batches |     7.22 ms/batch | loss   0.1563 |
-----------------------------------------------------------------------------
| end of epoch 15 | time: 3.79s | valid loss 0.5335 | valid acc   0.84 |
-----------------------------------------------------------------------------
| epoch   16 |    200 /    527 batches |     7.31 ms/batch | loss   0.1877 |
| epoch   16 |    400 /    527 batches |     7.22 ms/batch | loss   0.1521 |
-----------------------------------------------------------------------------
| end of epoch 16 | time: 3.81s | valid loss 0.6010 | valid acc   0.84 |
-----------------------------------------------------------------------------
| epoch   17 |    200 /    527 batches |     7.29 ms/batch | loss   0.1385 |
| epoch   17 |    400 /    527 batches |     7.28 ms/batch | loss   0.1264 |
-----------------------------------------------------------------------------
| end of epoch 17 | time: 3.88s | valid loss 0.5975 | valid acc   0.84 |
-----------------------------------------------------------------------------
| epoch   18 |    200 /    527 batches |     7.51 ms/batch | loss   0.1264 |
| epoch   18 |    400 /    527 batches |     7.27 ms/batch | loss   0.1397 |
-----------------------------------------------------------------------------
| end of epoch 18 | time: 3.88s | valid loss 0.5696 | valid acc   0.84 |
-----------------------------------------------------------------------------
| epoch   19 |    200 /    527 batches |     7.35 ms/batch | loss   0.1220 |
```

```
| epoch  19 |   400 /   527 batches |     7.31 ms/batch | loss   0.1209 |
-----------------------------------------------------------------------
| end of epoch 19 | time: 3.84s | valid loss 0.6018 | valid acc  0.83 |
-----------------------------------------------------------------------
| epoch  20 |   200 /   527 batches |     7.26 ms/batch | loss   0.1185 |
| epoch  20 |   400 /   527 batches |     7.29 ms/batch | loss   0.1583 |
-----------------------------------------------------------------------
| end of epoch 20 | time: 3.84s | valid loss 0.7066 | valid acc  0.83 |
-----------------------------------------------------------------------

End of training:
test loss 0.4678
test acc  0.81%
```