```
learning rate: 0.1, dropout: 0.1, batch size: 32
| epoch 1 | 200/2104 batches | lr 0.100 | ms/batch 8.21 | loss 0.69 |
| epoch 1 | 400/2104 batches | lr 0.100 | ms/batch 7.05 | loss 0.69 |
epoch 1 | 600/2104 batches | lr 0.100 | ms/batch 7.08 | loss 0.69 |
| epoch 1 | 800/2104 batches | lr 0.100 | ms/batch 7.07 | loss 0.69 |
| epoch 1 | 1000/2104 batches | lr 0.100 | ms/batch 7.11 | loss 0.68 |
epoch 1 | 1200/2104 batches | lr 0.100 | ms/batch 7.05 | loss 0.68 |
| epoch 1 | 1400/2104 batches | lr 0.100 | ms/batch 6.98 | loss 0.69 |
| epoch 1 | 1600/2104 batches | lr 0.100 | ms/batch 7.02 | loss 0.69 |
| epoch 1 | 1800/2104 batches | lr 0.100 | ms/batch 7.03 | loss 0.69 |
| epoch 1 | 2000/2104 batches | lr 0.100 | ms/batch 7.32 | loss 0.69 |
      ______
end of epoch 1 | time: 15.20s | valid loss 0.71 | valid acc 0.540 |
| epoch 2 | 200/2104 batches | lr 0.100 | ms/batch 7.77 | loss 0.69 |
| epoch 2 | 400/2104 batches | lr 0.100 | ms/batch 7.30 | loss 0.69 |
| epoch 2 | 600/2104 batches | lr 0.100 | ms/batch 7.35 | loss 0.69 |
| epoch 2 | 800/2104 batches | lr 0.100 | ms/batch 7.32 | loss 0.69 |
| epoch 2 | 1000/2104 batches | lr 0.100 | ms/batch 7.33 | loss 0.68 |
| epoch 2 | 1200/2104 batches | lr 0.100 | ms/batch 7.34 | loss 0.68 |
| epoch 2 | 1400/2104 batches | lr 0.100 | ms/batch 7.41 | loss 0.68 |
epoch 2 | 1600/2104 batches | lr 0.100 | ms/batch 7.35 | loss 0.68 |
| epoch 2 | 1800/2104 batches | lr 0.100 | ms/batch 7.30 | loss 0.68 |
| epoch 2 | 2000/2104 batches | lr 0.100 | ms/batch 7.33 | loss 0.68 |
end of epoch 2 | time: 15.59s | valid loss 0.71 | valid acc 0.540 |
     _____
| epoch 3 | 200/2104 batches | lr 0.100 | ms/batch 7.33 | loss 0.69 |
| epoch 3 | 400/2104 batches | lr 0.100 | ms/batch 7.32 | loss 0.68 |
| epoch 3 | 600/2104 batches | lr 0.100 | ms/batch 7.33 | loss 0.68 |
| epoch 3 | 800/2104 batches | lr 0.100 | ms/batch 7.29 | loss 0.68 |
| epoch 3 | 1000/2104 batches | lr 0.100 | ms/batch 7.31 | loss 0.68 |
epoch 3 | 1200/2104 batches | lr 0.100 | ms/batch 7.24 | loss 0.68 |
epoch 3 | 1400/2104 batches | lr 0.100 | ms/batch 7.29 | loss 0.68 |
| epoch 3 | 1600/2104 batches | lr 0.100 | ms/batch 7.29 | loss 0.68 |
| epoch 3 | 1800/2104 batches | lr 0.100 | ms/batch 7.26 | loss 0.67 |
| epoch 3 | 2000/2104 batches | lr 0.100 | ms/batch 7.29 | loss 0.66 |
end of epoch 3 | time: 15.39s | valid loss 0.64 | valid acc 0.664 |
| epoch 4 | 200/2104 batches | lr 0.100 | ms/batch 6.77 | loss 0.65 |
| epoch 4 | 400/2104 batches | lr 0.100 | ms/batch 7.25 | loss 0.64 |
| epoch 4 | 600/2104 batches | lr 0.100 | ms/batch 7.09 | loss 0.63 |
| epoch 4 | 800/2104 batches | lr 0.100 | ms/batch 7.12 | loss 0.63 |
| epoch
       4 | 1000/2104 batches | lr 0.100 | ms/batch 7.11 | loss 0.61 |
| epoch 4 | 1200/2104 batches | lr 0.100 | ms/batch 7.14 | loss 0.61 |
| epoch 4 | 1400/2104 batches | lr 0.100 | ms/batch 7.15 | loss 0.60 |
```

| epoch 4 | 1600/2104 batches | lr 0.100 | ms/batch 7.14 | loss 0.59 | | epoch 4 | 1800/2104 batches | lr 0.100 | ms/batch 7.13 | loss 0.59 |

```
| epoch 4 | 2000/2104 batches | lr 0.100 | ms/batch 7.12 | loss 0.57 |
______
end of epoch 4 | time: 15.01s | valid loss 0.62 | valid acc 0.740 |
_____
| epoch 5 | 200/2104 batches | lr 0.100 | ms/batch 7.22 | loss 0.58 |
epoch 5 | 400/2104 batches | lr 0.100 | ms/batch 7.11 | loss 0.57 |
| epoch 5 | 600/2104 batches | lr 0.100 | ms/batch 7.30 | loss 0.57 |
| epoch 5 | 800/2104 batches | lr 0.100 | ms/batch 7.31 | loss 0.55 |
epoch 5 | 1000/2104 batches | lr 0.100 | ms/batch 7.35 | loss 0.55 |
| epoch 5 | 1200/2104 batches | lr 0.100 | ms/batch 7.34 | loss 0.55 |
| epoch 5 | 1400/2104 batches | lr 0.100 | ms/batch 7.31 | loss 0.53 |
| epoch 5 | 1600/2104 batches | lr 0.100 | ms/batch 7.34 | loss 0.53 |
| epoch 5 | 1800/2104 batches | lr 0.100 | ms/batch 7.24 | loss 0.53 |
| epoch 5 | 2000/2104 batches | lr 0.100 | ms/batch 7.07 | loss 0.51 |
_____
| end of epoch 5 | time: 15.31s | valid loss 0.55 | valid acc 0.774 |
_____
| epoch 6 | 200/2104 batches | lr 0.100 | ms/batch 7.07 | loss 0.52 |
| epoch 6 | 400/2104 batches | lr 0.100 | ms/batch 7.03 | loss 0.51 |
| epoch 6 | 600/2104 batches | lr 0.100 | ms/batch 7.00 | loss 0.52 |
| epoch 6 | 800/2104 batches | lr 0.100 | ms/batch 7.22 | loss 0.50 |
| epoch 6 | 1000/2104 batches | lr 0.100 | ms/batch 7.22 | loss 0.50 |
| epoch 6 | 1200/2104 batches | lr 0.100 | ms/batch 7.21 | loss 0.50 |
| epoch 6 | 1400/2104 batches | lr 0.100 | ms/batch 7.29 | loss 0.48 |
epoch 6 | 1600/2104 batches | lr 0.100 | ms/batch 7.32 | loss 0.48 |
| epoch 6 | 1800/2104 batches | lr 0.100 | ms/batch 7.25 | loss 0.49 |
| epoch 6 | 2000/2104 batches | lr 0.100 | ms/batch 7.28 | loss 0.46 |
end of epoch 6 | time: 15.19s | valid loss 0.55 | valid acc 0.760 |
______
| epoch 7 | 200/2104 batches | lr 0.025 | ms/batch 7.26 | loss 0.46 |
| epoch 7 | 400/2104 batches | lr 0.025 | ms/batch 7.21 | loss 0.45 |
epoch 7 | 600/2104 batches | lr 0.025 | ms/batch 7.18 | loss 0.46 |
| epoch 7 | 800/2104 batches | lr 0.025 | ms/batch 7.18 | loss 0.45 |
| epoch 7 | 1000/2104 batches | lr 0.025 | ms/batch 7.17 | loss 0.45 |
epoch 7 | 1200/2104 batches | lr 0.025 | ms/batch 7.18 | loss 0.46 |
| epoch 7 | 1400/2104 batches | lr 0.025 | ms/batch 7.33 | loss 0.44 |
epoch 7 | 1600/2104 batches | lr 0.025 | ms/batch 7.04 | loss 0.44 |
| epoch 7 | 1800/2104 batches | lr 0.025 | ms/batch 7.28 | loss 0.44 |
| epoch 7 | 2000/2104 batches | lr 0.025 | ms/batch 7.48 | loss 0.43 |
_____
| end of epoch 7 | time: 15.28s | valid loss 0.55 | valid acc 0.793 |
______
| epoch 8 | 200/2104 batches | lr 0.006 | ms/batch 7.30 | loss 0.44 |
| epoch 8 | 400/2104 batches | lr 0.006 | ms/batch 7.12 | loss 0.44 |
| epoch 8 | 600/2104 batches | lr 0.006 | ms/batch 7.10 | loss 0.45 |
| epoch 8 | 800/2104 batches | lr 0.006 | ms/batch 7.31 | loss 0.44 |
| epoch 8 | 1000/2104 batches | lr 0.006 | ms/batch 7.42 | loss 0.44 |
| epoch 8 | 1200/2104 batches | lr 0.006 | ms/batch 7.41 | loss 0.44 |
epoch 8 | 1400/2104 batches | lr 0.006 | ms/batch 7.25 | loss 0.44 |
| epoch 8 | 1600/2104 batches | lr 0.006 | ms/batch 7.38 | loss 0.43 |
```

```
epoch 8 | 1800/2104 batches | lr 0.006 | ms/batch 7.43 | loss 0.44 |
| epoch 8 | 2000/2104 batches | lr 0.006 | ms/batch 7.40 | loss 0.42 |
  .....
| end of epoch 8 | time: 15.46s | valid loss 0.55 | valid acc 0.793 |
epoch 9 | 200/2104 batches | lr 0.002 | ms/batch 7.42 | loss 0.44 |
| epoch 9 | 400/2104 batches | lr 0.002 | ms/batch 7.32 | loss 0.44 |
| epoch 9 | 600/2104 batches | lr 0.002 | ms/batch 7.07 | loss 0.44 |
epoch 9 | 800/2104 batches | lr 0.002 | ms/batch 7.17 | loss 0.43 |
| epoch 9 | 1000/2104 batches | lr 0.002 | ms/batch 7.13 | loss 0.44 |
| epoch 9 | 1200/2104 batches | lr 0.002 | ms/batch 7.06 | loss 0.44 |
| epoch 9 | 1400/2104 batches | lr 0.002 | ms/batch 7.04 | loss 0.43 |
| epoch 9 | 1600/2104 batches | lr 0.002 | ms/batch 7.08 | loss 0.43 |
| epoch 9 | 1800/2104 batches | lr 0.002 | ms/batch 7.14 | loss 0.44 |
| epoch 9 | 2000/2104 batches | lr 0.002 | ms/batch 7.12 | loss 0.41 |
| end of epoch 9 | time: 15.13s | valid loss 0.55 | valid acc 0.793 |
______
| epoch 10 | 200/2104 batches | lr 0.000 | ms/batch 7.62 | loss 0.44 |
| epoch 10 | 400/2104 batches | lr 0.000 | ms/batch 7.38 | loss 0.43 |
| epoch 10 | 600/2104 batches | lr 0.000 | ms/batch 7.33 | loss 0.44 |
| epoch 10 | 800/2104 batches | lr 0.000 | ms/batch 7.21 | loss 0.43 |
| epoch 10 | 1000/2104 batches | lr 0.000 | ms/batch 7.28 | loss 0.44 |
| epoch 10 | 1200/2104 batches | lr 0.000 | ms/batch 7.35 | loss 0.44 |
epoch 10 | 1400/2104 batches | lr 0.000 | ms/batch 7.28 | loss 0.43 |
| epoch 10 | 1600/2104 batches | lr 0.000 | ms/batch 7.44 | loss 0.43 |
epoch 10 | 1800/2104 batches | lr 0.000 | ms/batch 7.40 | loss 0.44 |
| epoch 10 | 2000/2104 batches | lr 0.000 | ms/batch 7.36 | loss 0.42 |
_____
end of epoch 10 | time: 15.57s | valid loss 0.55 | valid acc 0.781 |
______
| End of training | test loss 0.56 | test acc 0.767 |
______
learning_rate: 0.1, dropout: 0.1, batch_size: 64
______
| epoch 1 | 200/1052 batches | lr 0.100 | ms/batch 8.82 | loss 0.69 |
| epoch 1 | 400/1052 batches | lr 0.100 | ms/batch 7.50 | loss 0.69 |
| epoch 1 | 600/1052 batches | lr 0.100 | ms/batch 7.52 | loss 0.68 |
| epoch 1 | 800/1052 batches | lr 0.100 | ms/batch 7.48 | loss 0.69 |
| epoch 1 | 1000/1052 batches | lr 0.100 | ms/batch 7.55 | loss 0.69 |
end of epoch 1 | time: 8.22s | valid loss 0.71 | valid acc 0.540 |
_____
| epoch 2 | 200/1052 batches | lr 0.100 | ms/batch 7.46 | loss 0.69 |
| epoch 2 | 400/1052 batches | lr 0.100 | ms/batch 7.34 | loss 0.69 |
| epoch 2 | 600/1052 batches | lr 0.100 | ms/batch 7.34 | loss 0.68 |
| epoch 2 | 800/1052 batches | lr 0.100 | ms/batch 7.38 | loss 0.68 |
```

```
| epoch 2 | 1000/1052 batches | lr 0.100 | ms/batch 7.45 | loss 0.69 |
    ______
end of epoch 2 | time: 7.85s | valid loss 0.71 | valid acc 0.540 |
_____
| epoch 3 | 200/1052 batches | lr 0.100 | ms/batch 7.69 | loss 0.69 |
| epoch 3 | 400/1052 batches | lr 0.100 | ms/batch 7.43 | loss 0.69 |
| epoch 3 | 600/1052 batches | lr 0.100 | ms/batch 7.52 | loss 0.68 |
| epoch 3 | 800/1052 batches | lr 0.100 | ms/batch 7.44 | loss 0.68 |
epoch 3 | 1000/1052 batches | lr 0.100 | ms/batch 7.41 | loss 0.68 |
______
end of epoch 3 | time: 7.94s | valid loss 0.71 | valid acc 0.540 |
______
| epoch 4 | 200/1052 batches | lr 0.100 | ms/batch 7.35 | loss 0.69 |
| epoch 4 | 400/1052 batches | lr 0.100 | ms/batch 7.32 | loss 0.68 |
| epoch 4 | 600/1052 batches | lr 0.100 | ms/batch 7.18 | loss 0.68 |
| epoch 4 | 800/1052 batches | lr 0.100 | ms/batch 7.19 | loss 0.68 |
| epoch 4 | 1000/1052 batches | lr 0.100 | ms/batch 7.28 | loss 0.68 |
_____
end of epoch 4 | time: 7.71s | valid loss 0.71 | valid acc 0.540 |
_____
| epoch 5 | 200/1052 batches | lr 0.100 | ms/batch 7.38 | loss 0.69 |
| epoch 5 | 400/1052 batches | lr 0.100 | ms/batch 7.36 | loss 0.68 |
| epoch 5 | 600/1052 batches | lr 0.100 | ms/batch 7.37 | loss 0.68 |
| epoch 5 | 800/1052 batches | lr 0.100 | ms/batch 7.30 | loss 0.68 |
| epoch 5 | 1000/1052 batches | lr 0.100 | ms/batch 7.18 | loss 0.68 |
_____
| end of epoch 5 | time: 7.75s | valid loss 0.69 | valid acc 0.612 |
_____
| epoch 6 | 200/1052 batches | lr 0.100 | ms/batch 7.47 | loss 0.67 |
| epoch 6 | 400/1052 batches | lr 0.100 | ms/batch 7.36 | loss 0.66 |
| epoch 6 | 600/1052 batches | lr 0.100 | ms/batch 7.44 | loss 0.65 |
| epoch 6 | 800/1052 batches | lr 0.100 | ms/batch 7.37 | loss 0.64 |
epoch 6 | 1000/1052 batches | lr 0.100 | ms/batch 7.18 | loss 0.63 |
 _____
end of epoch 6 | time: 7.80s | valid loss 0.60 | valid acc 0.702 |
_____
| epoch 7 | 200/1052 batches | lr 0.100 | ms/batch 7.21 | loss 0.62 |
| epoch 7 | 400/1052 batches | lr 0.100 | ms/batch 7.16 | loss 0.61 |
| epoch 7 | 600/1052 batches | lr 0.100 | ms/batch 7.53 | loss 0.60 |
| epoch 7 | 800/1052 batches | lr 0.100 | ms/batch 7.19 | loss 0.59 |
epoch 7 | 1000/1052 batches | lr 0.100 | ms/batch 7.41 | loss 0.58 |
_____
end of epoch 7 | time: 7.75s | valid loss 0.63 | valid acc 0.719 |
-----
| epoch 8 | 200/1052 batches | lr 0.025 | ms/batch 7.35 | loss 0.57 |
| epoch 8 | 400/1052 batches | lr 0.025 | ms/batch 7.41 | loss 0.56 |
| epoch 8 | 600/1052 batches | lr 0.025 | ms/batch 7.34 | loss 0.56 |
| epoch 8 | 800/1052 batches | lr 0.025 | ms/batch 7.13 | loss 0.55 |
epoch 8 | 1000/1052 batches | lr 0.025 | ms/batch 7.46 | loss 0.55 |
  -----
end of epoch 8 | time: 7.78s | valid loss 0.54 | valid acc 0.748 |
```

```
| epoch 9 | 200/1052 batches | lr 0.025 | ms/batch 7.50 | loss 0.55 |
| epoch 9 | 400/1052 batches | lr 0.025 | ms/batch 7.30 | loss 0.55 |
           600/ 1052 batches | lr 0.025 | ms/batch 7.47 | loss 0.55 |
epoch 9
| epoch 9 | 800/1052 batches | lr 0.025 | ms/batch 7.40 | loss 0.54 |
| epoch 9 | 1000/1052 batches | lr 0.025 | ms/batch 7.46 | loss 0.54 |
______
end of epoch 9 | time: 7.88s | valid loss 0.53 | valid acc 0.745 |
______
| epoch 10 | 200/1052 batches | lr 0.025 | ms/batch 7.76 | loss 0.54 |
| epoch 10 | 400/1052 batches | lr 0.025 | ms/batch 7.56 | loss 0.54 |
| epoch 10 | 600/1052 batches | lr 0.025 | ms/batch 7.43 | loss 0.54 |
| epoch 10 | 800/1052 batches | lr 0.025 | ms/batch 7.44 | loss 0.53 |
| epoch 10 | 1000/1052 batches | lr 0.025 | ms/batch 7.35 | loss 0.52 |
______
end of epoch 10 | time: 7.97s | valid loss 0.53 | valid acc 0.752 |
  ------
_____
| End of training | test loss 0.58 | test acc 0.743 |
______
learning rate: 0.1, dropout: 0.2, batch size: 32
| epoch 1 | 200/2104 batches | lr 0.100 | ms/batch 8.66 | loss 0.69 |
| epoch 1 | 400/2104 batches | lr 0.100 | ms/batch 7.15 | loss 0.69 |
| epoch 1 | 600/2104 batches | lr 0.100 | ms/batch 7.02 | loss 0.69 |
| epoch 1 | 800/2104 batches | lr 0.100 | ms/batch 6.91 | loss 0.69 |
epoch 1 | 1000/2104 batches | lr 0.100 | ms/batch 6.41 | loss 0.68 |
| epoch 1 | 1200/2104 batches | lr 0.100 | ms/batch 5.99 | loss 0.68 |
| epoch 1 | 1400/2104 batches | lr 0.100 | ms/batch 6.94 | loss 0.69 |
epoch 1 | 1600/2104 batches | lr 0.100 | ms/batch 5.73 | loss 0.69 |
| epoch 1 | 1800/2104 batches | lr 0.100 | ms/batch 6.81 | loss 0.69 |
| epoch 1 | 2000/2104 batches | lr 0.100 | ms/batch 6.94 | loss 0.69 |
 ------
end of epoch 1 | time: 14.49s | valid loss 0.71 | valid acc 0.540 |
| epoch 2 | 200/2104 batches | lr 0.100 | ms/batch 6.92 | loss 0.69 |
| epoch 2 | 400/2104 batches | lr 0.100 | ms/batch 6.87 | loss 0.69 |
| epoch 2 | 600/2104 batches | lr 0.100 | ms/batch 6.93 | loss 0.69 |
| epoch 2 | 800/2104 batches | lr 0.100 | ms/batch 6.96 | loss 0.69 |
| epoch 2 | 1000/2104 batches | lr 0.100 | ms/batch 6.95 | loss 0.68 |
| epoch 2 | 1200/2104 batches | lr 0.100 | ms/batch 7.02 | loss 0.68 |
| epoch 2 | 1400/2104 batches | lr 0.100 | ms/batch 7.01 | loss 0.68 |
| epoch 2 | 1600/2104 batches | lr 0.100 | ms/batch 7.02 | loss 0.68 |
| epoch 2 | 1800/2104 batches | lr 0.100 | ms/batch 7.08 | loss 0.68 |
| epoch 2 | 2000/2104 batches | lr 0.100 | ms/batch 7.22 | loss 0.68 |
end of epoch 2 | time: 14.80s | valid loss 0.71 | valid acc 0.540 |
```

```
epoch 3
            200/ 2104 batches | lr 0.100 | ms/batch 5.82 | loss 0.69 |
| epoch 3 | 400/2104 batches | lr 0.100 | ms/batch 5.92 | loss 0.68 |
| epoch 3 | 600/2104 batches | lr 0.100 | ms/batch 5.79 | loss 0.68 |
| epoch 3 | 800/2104 batches | lr 0.100 | ms/batch 7.20 | loss 0.68 |
| epoch 3 | 1000/2104 batches | lr 0.100 | ms/batch 7.22 | loss 0.68 |
| epoch 3 | 1200/2104 batches | lr 0.100 | ms/batch 7.27 | loss 0.68 |
| epoch 3 | 1400/2104 batches | lr 0.100 | ms/batch 7.16 | loss 0.68 |
| epoch 3 | 1600/2104 batches | lr 0.100 | ms/batch 7.19 | loss 0.68 |
epoch 3 | 1800/2104 batches | lr 0.100 | ms/batch 7.51 | loss 0.67 |
| epoch 3 | 2000/2104 batches | lr 0.100 | ms/batch 7.25 | loss 0.66 |
     -----
end of epoch 3 | time: 14.47s | valid loss 0.65 | valid acc 0.674 |
| epoch 4 | 200/2104 batches | lr 0.100 | ms/batch 7.78 | loss 0.65 |
| epoch 4 | 400/2104 batches | lr 0.100 | ms/batch 7.24 | loss 0.64 |
| epoch 4 | 600/2104 batches | lr 0.100 | ms/batch 7.17 | loss 0.64 |
| epoch 4 | 800/2104 batches | lr 0.100 | ms/batch 7.25 | loss 0.63 |
| epoch 4 | 1000/2104 batches | lr 0.100 | ms/batch 7.25 | loss 0.62 |
| epoch 4 | 1200/2104 batches | lr 0.100 | ms/batch 7.33 | loss 0.62 |
| epoch 4 | 1400/2104 batches | lr 0.100 | ms/batch 7.17 | loss 0.61 |
| epoch 4 | 1600/2104 batches | lr 0.100 | ms/batch 7.07 | loss 0.60 |
| epoch 4 | 1800/2104 batches | lr 0.100 | ms/batch 6.93 | loss 0.60 |
| epoch 4 | 2000/2104 batches | lr 0.100 | ms/batch 6.91 | loss 0.58 |
 _____
end of epoch 4 | time: 15.21s | valid loss 0.60 | valid acc 0.745 |
_____
| epoch 5 | 200/2104 batches | lr 0.100 | ms/batch 6.89 | loss 0.59 |
| epoch 5 | 400/2104 batches | lr 0.100 | ms/batch 6.84 | loss 0.58 |
| epoch 5 | 600/2104 batches | lr 0.100 | ms/batch 6.83 | loss 0.58 |
| epoch 5 | 800/2104 batches | lr 0.100 | ms/batch 7.02 | loss 0.56 |
| epoch 5 | 1000/2104 batches | lr 0.100 | ms/batch 7.26 | loss 0.56 |
| epoch 5 | 1200/2104 batches | lr 0.100 | ms/batch 7.24 | loss 0.56 |
| epoch 5 | 1400/2104 batches | lr 0.100 | ms/batch 7.22 | loss 0.55 |
| epoch 5 | 1600/2104 batches | lr 0.100 | ms/batch 7.28 | loss 0.54 |
| epoch 5 | 1800/2104 batches | lr 0.100 | ms/batch 7.24 | loss 0.54 |
| epoch 5 | 2000/2104 batches | lr 0.100 | ms/batch 7.24 | loss 0.53 |
end of epoch 5 | time: 15.02s | valid loss 0.53 | valid acc 0.764 |
______
epoch 6 | 200/2104 batches | lr 0.100 | ms/batch 7.27 | loss 0.53 |
| epoch 6 | 400/2104 batches | lr 0.100 | ms/batch 7.15 | loss 0.52 |
| epoch 6 | 600/2104 batches | lr 0.100 | ms/batch 7.10 | loss 0.53 |
| epoch 6 | 800/2104 batches | lr 0.100 | ms/batch 7.08 | loss 0.51 |
| epoch 6 | 1000/2104 batches | lr 0.100 | ms/batch 7.12 | loss 0.51 |
| epoch 6 | 1200/2104 batches | lr 0.100 | ms/batch 7.12 | loss 0.51 |
| epoch 6 | 1400/2104 batches | lr 0.100 | ms/batch 7.12 | loss 0.49 |
| epoch 6 | 1600/2104 batches | lr 0.100 | ms/batch 7.12 | loss 0.50 |
| epoch 6 | 1800/2104 batches | lr 0.100 | ms/batch 7.24 | loss 0.50 |
epoch 6 | 2000/2104 batches | lr 0.100 | ms/batch 7.05 | loss 0.47 |
   -----
end of epoch 6 | time: 15.08s | valid loss 0.52 | valid acc 0.786 |
```

```
| epoch 7 | 200/2104 batches | lr 0.100 | ms/batch 7.39 | loss 0.49 |
epoch 7 | 400/2104 batches | lr 0.100 | ms/batch 7.37 | loss 0.48 |
            600/2104 batches | lr 0.100 | ms/batch 7.41 | loss 0.48 |
epoch 7
| epoch 7 | 800/2104 batches | lr 0.100 | ms/batch 7.31 | loss 0.47 |
epoch 7 | 1000/2104 batches | lr 0.100 | ms/batch 7.28 | loss 0.47 |
| epoch 7 | 1200/2104 batches | lr 0.100 | ms/batch 7.25 | loss 0.47 |
| epoch 7 | 1400/2104 batches | lr 0.100 | ms/batch 7.22 | loss 0.46 |
epoch 7 | 1600/2104 batches | lr 0.100 | ms/batch 7.22 | loss 0.45 |
| epoch 7 | 1800/2104 batches | lr 0.100 | ms/batch 7.06 | loss 0.46 |
| epoch 7 | 2000/2104 batches | lr 0.100 | ms/batch 6.98 | loss 0.44 |
_____
| end of epoch 7 | time: 15.27s | valid loss 0.53 | valid acc 0.781 |
_____
| epoch 8 | 200/2104 batches | lr 0.025 | ms/batch 7.01 | loss 0.44 |
| epoch 8 | 400/2104 batches | lr 0.025 | ms/batch 7.12 | loss 0.43 |
epoch 8 | 600/2104 batches | lr 0.025 | ms/batch 7.08 | loss 0.44 |
| epoch 8 | 800/2104 batches | lr 0.025 | ms/batch 7.12 | loss 0.43 |
| epoch 8 | 1000/2104 batches | lr 0.025 | ms/batch 7.08 | loss 0.43 |
| epoch 8 | 1200/2104 batches | lr 0.025 | ms/batch 7.09 | loss 0.43 |
epoch 8 | 1400/2104 batches | lr 0.025 | ms/batch 7.07 | loss 0.43 |
| epoch 8 | 1600/2104 batches | lr 0.025 | ms/batch 7.06 | loss 0.42 |
| epoch 8 | 1800/2104 batches | lr 0.025 | ms/batch 6.97 | loss 0.43 |
epoch 8 | 2000/2104 batches | lr 0.025 | ms/batch 7.07 | loss 0.41 |
end of epoch 8 | time: 14.93s | valid loss 0.56 | valid acc 0.779 |
______
| epoch 9 | 200/2104 batches | lr 0.006 | ms/batch 7.11 | loss 0.43 |
| epoch 9 | 400/2104 batches | lr 0.006 | ms/batch 7.10 | loss 0.42 |
epoch 9 | 600/2104 batches | lr 0.006 | ms/batch 7.08 | loss 0.43 |
| epoch 9 | 800/2104 batches | lr 0.006 | ms/batch 7.07 | loss 0.42 |
| epoch 9 | 1000/2104 batches | lr 0.006 | ms/batch 7.11 | loss 0.42 |
epoch 9 | 1200/2104 batches | lr 0.006 | ms/batch 7.18 | loss 0.43 |
| epoch 9 | 1400/2104 batches | lr 0.006 | ms/batch 7.22 | loss 0.42 |
epoch 9 | 1600/2104 batches | lr 0.006 | ms/batch 7.07 | loss 0.41 |
| epoch 9 | 1800/2104 batches | lr 0.006 | ms/batch 7.10 | loss 0.42 |
epoch 9 | 2000/2104 batches | lr 0.006 | ms/batch 7.13 | loss 0.40 |
end of epoch 9 | time: 15.03s | valid loss 0.55 | valid acc 0.790 |
______
| epoch 10 | 200/2104 batches | lr 0.002 | ms/batch 6.66 | loss 0.42 |
| epoch 10 | 400/2104 batches | lr 0.002 | ms/batch 7.18 | loss 0.42 |
epoch 10 | 600/2104 batches | lr 0.002 | ms/batch 7.23 | loss 0.43 |
| epoch 10 | 800/2104 batches | lr 0.002 | ms/batch 7.26 | loss 0.41 |
| epoch 10 | 1000/2104 batches | lr 0.002 | ms/batch 7.16 | loss 0.42 |
| epoch 10 | 1200/ 2104 batches | lr 0.002 | ms/batch 7.12 | loss 0.43 |
| epoch 10 | 1400/ 2104 batches | lr 0.002 | ms/batch 7.12 | loss 0.42 |
| epoch 10 | 1600/ 2104 batches | lr 0.002 | ms/batch 7.25 | loss 0.41 |
epoch 10 | 1800/2104 batches | lr 0.002 | ms/batch 7.26 | loss 0.42 |
epoch 10 | 2000/2104 batches | lr 0.002 | ms/batch 7.25 | loss 0.40 |
```

```
| end of epoch 10 | time: 15.11s | valid loss 0.55 | valid acc 0.798 |
| End of training | test loss 0.56 | test acc 0.776 |
learning_rate: 0.1, dropout: 0.2, batch_size: 64
______
| epoch 1 | 200/1052 batches | lr 0.100 | ms/batch 8.69 | loss 0.69 |
| epoch 1 | 400/1052 batches | lr 0.100 | ms/batch 7.52 | loss 0.69 |
| epoch 1 | 600/1052 batches | lr 0.100 | ms/batch 7.51 | loss 0.68 |
| epoch 1 | 800/1052 batches | lr 0.100 | ms/batch 7.52 | loss 0.69 |
| epoch 1 | 1000/1052 batches | lr 0.100 | ms/batch 7.62 | loss 0.69 |
end of epoch 1 | time: 8.23s | valid loss 0.71 | valid acc 0.540 |
_____
| epoch 2 | 200/1052 batches | lr 0.100 | ms/batch 7.35 | loss 0.69 |
| epoch 2 | 400/1052 batches | lr 0.100 | ms/batch 7.29 | loss 0.69 |
| epoch 2 | 600/1052 batches | lr 0.100 | ms/batch 7.41 | loss 0.68 |
| epoch 2 | 800/1052 batches | lr 0.100 | ms/batch 7.32 | loss 0.68 |
| epoch 2 | 1000/1052 batches | lr 0.100 | ms/batch 7.23 | loss 0.69 |
      -----
end of epoch 2 | time: 7.76s | valid loss 0.71 | valid acc 0.540 |
_____
| epoch 3 | 200/1052 batches | lr 0.100 | ms/batch 7.18 | loss 0.69 |
| epoch 3 | 400/1052 batches | lr 0.100 | ms/batch 7.20 | loss 0.69 |
| epoch 3 | 600/1052 batches | lr 0.100 | ms/batch 7.20 | loss 0.68 |
| epoch 3 | 800/1052 batches | lr 0.100 | ms/batch 7.24 | loss 0.68 |
| epoch 3 | 1000/1052 batches | lr 0.100 | ms/batch 7.36 | loss 0.68 |
        .....
end of epoch 3 | time: 7.68s | valid loss 0.71 | valid acc 0.540 |
_____
| epoch 4 | 200/1052 batches | lr 0.100 | ms/batch 7.38 | loss 0.69 |
| epoch 4 | 400/1052 batches | lr 0.100 | ms/batch 7.33 | loss 0.68 |
| epoch 4 | 600/1052 batches | lr 0.100 | ms/batch 7.27 | loss 0.68 |
| epoch 4 | 800/1052 batches | lr 0.100 | ms/batch 7.37 | loss 0.68 |
| epoch 4 | 1000/1052 batches | lr 0.100 | ms/batch 7.53 | loss 0.68 |
______
end of epoch 4 | time: 7.83s | valid loss 0.71 | valid acc 0.540 |
-----
| epoch 5 | 200/1052 batches | lr 0.100 | ms/batch 7.37 | loss 0.69 |
| epoch 5 | 400/1052 batches | lr 0.100 | ms/batch 7.44 | loss 0.68 |
| epoch 5 | 600/1052 batches | lr 0.100 | ms/batch 7.47 | loss 0.68 |
| epoch 5 | 800/1052 batches | lr 0.100 | ms/batch 7.48 | loss 0.68 |
epoch 5 | 1000/1052 batches | lr 0.100 | ms/batch 7.46 | loss 0.68 |
end of epoch 5 | time: 7.89s | valid loss 0.69 | valid acc 0.614 |
```

epoch 6 | 200/1052 batches | lr 0.100 | ms/batch 7.43 | loss 0.68 |

```
epoch 6 | 400/1052 batches | lr 0.100 | ms/batch 7.44 | loss 0.67 |
| epoch 6 | 600/1052 batches | lr 0.100 | ms/batch 7.32 | loss 0.65 |
| epoch 6 | 800/1052 batches | lr 0.100 | ms/batch 7.51 | loss 0.65 |
| epoch 6 | 1000/1052 batches | lr 0.100 | ms/batch 7.55 | loss 0.63 |
      ______
end of epoch 6 | time: 7.90s | valid loss 0.60 | valid acc 0.702 |
______
| epoch 7 | 200/1052 batches | lr 0.100 | ms/batch 7.65 | loss 0.63 |
epoch 7 | 400/1052 batches | lr 0.100 | ms/batch 7.41 | loss 0.62 |
| epoch 7 | 600/1052 batches | lr 0.100 | ms/batch 7.54 | loss 0.61 |
| epoch 7 | 800/1052 batches | lr 0.100 | ms/batch 7.55 | loss 0.60 |
| epoch 7 | 1000/1052 batches | lr 0.100 | ms/batch 7.41 | loss 0.59 |
end of epoch 7 | time: 7.97s | valid loss 0.62 | valid acc 0.719 |
______
| epoch 8 | 200/1052 batches | lr 0.025 | ms/batch 7.49 | loss 0.58 |
| epoch 8 | 400/1052 batches | lr 0.025 | ms/batch 7.46 | loss 0.57 |
| epoch 8 | 600/1052 batches | lr 0.025 | ms/batch 7.37 | loss 0.57 |
| epoch 8 | 800/1052 batches | lr 0.025 | ms/batch 7.31 | loss 0.56 |
| epoch 8 | 1000/1052 batches | lr 0.025 | ms/batch 7.27 | loss 0.56 |
 .....
end of epoch 8 | time: 7.82s | valid loss 0.54 | valid acc 0.740 |
_____
| epoch 9 | 200/1052 batches | lr 0.025 | ms/batch 7.31 | loss 0.56 |
| epoch 9 | 400/1052 batches | lr 0.025 | ms/batch 6.59 | loss 0.56 |
| epoch 9 | 600/1052 batches | lr 0.025 | ms/batch 5.33 | loss 0.56 |
| epoch 9 | 800/1052 batches | lr 0.025 | ms/batch 6.25 | loss 0.55 |
| epoch 9 | 1000/1052 batches | lr 0.025 | ms/batch 7.65 | loss 0.55 |
       _____
end of epoch 9 | time: 7.09s | valid loss 0.53 | valid acc 0.755 |
______
| epoch 10 | 200/1052 batches | lr 0.025 | ms/batch 7.64 | loss 0.55 |
| epoch 10 | 400/1052 batches | lr 0.025 | ms/batch 7.68 | loss 0.55 |
| epoch 10 | 600/1052 batches | lr 0.025 | ms/batch 7.51 | loss 0.55 |
| epoch 10 | 800/1052 batches | lr 0.025 | ms/batch 7.51 | loss 0.54 |
| epoch 10 | 1000/1052 batches | lr 0.025 | ms/batch 7.50 | loss 0.53 |
 ______
end of epoch 10 | time: 8.02s | valid loss 0.53 | valid acc 0.745 |
  -----
| End of training | test loss 0.56 | test acc 0.738 |
______
learning_rate: 1, dropout: 0.1, batch_size: 32
______
| epoch 1 | 200/2104 batches | lr 1.000 | ms/batch 7.99 | loss 0.70 |
| epoch 1 | 400/2104 batches | lr 1.000 | ms/batch 6.92 | loss 0.69 |
| epoch 1 | 600/2104 batches | lr 1.000 | ms/batch 6.94 | loss 0.69 |
| epoch 1 | 800/2104 batches | lr 1.000 | ms/batch 6.94 | loss 0.69 |
```

```
| epoch 1 | 1000/2104 batches | lr 1.000 | ms/batch 7.01 | loss 0.69 |
| epoch 1 | 1200/2104 batches | lr 1.000 | ms/batch 6.96 | loss 0.69 |
| epoch 1 | 1400/2104 batches | lr 1.000 | ms/batch 7.07 | loss 0.69 |
| epoch 1 | 1600/2104 batches | lr 1.000 | ms/batch 7.10 | loss 0.68 |
| epoch 1 | 1800/2104 batches | lr 1.000 | ms/batch 6.94 | loss 0.65 |
epoch 1 | 2000/2104 batches | lr 1.000 | ms/batch 6.99 | loss 0.60 |
______
end of epoch 1 | time: 14.96s | valid loss 0.67 | valid acc 0.662 |
______
| epoch 2 | 200/2104 batches | lr 1.000 | ms/batch 7.12 | loss 0.55 |
| epoch 2 | 400/2104 batches | lr 1.000 | ms/batch 7.07 | loss 0.51 |
| epoch 2 | 600/2104 batches | lr 1.000 | ms/batch 6.97 | loss 0.49 |
| epoch 2 | 800/2104 batches | lr 1.000 | ms/batch 7.08 | loss 0.47 |
| epoch 2 | 1000/2104 batches | lr 1.000 | ms/batch 7.02 | loss 0.45 |
| epoch 2 | 1200/2104 batches | lr 1.000 | ms/batch 7.10 | loss 0.44 |
| epoch 2 | 1400/2104 batches | lr 1.000 | ms/batch 7.29 | loss 0.41 |
| epoch 2 | 1600/2104 batches | lr 1.000 | ms/batch 7.33 | loss 0.39 |
| epoch 2 | 1800/2104 batches | lr 1.000 | ms/batch 7.30 | loss 0.38 |
| epoch 2 | 2000/2104 batches | lr 1.000 | ms/batch 7.30 | loss 0.36 |
_____
end of epoch 2 | time: 15.13s | valid loss 0.84 | valid acc 0.764 |
| epoch 3 | 200/2104 batches | lr 0.250 | ms/batch 7.33 | loss 0.32 |
| epoch 3 | 400/2104 batches | lr 0.250 | ms/batch 7.39 | loss 0.30 |
epoch 3 | 600/2104 batches | lr 0.250 | ms/batch 7.20 | loss 0.31 |
| epoch 3 | 800/2104 batches | lr 0.250 | ms/batch 7.06 | loss 0.29 |
| epoch 3 | 1000/2104 batches | lr 0.250 | ms/batch 7.12 | loss 0.28 |
| epoch 3 | 1200/2104 batches | lr 0.250 | ms/batch 7.14 | loss 0.29 |
| epoch 3 | 1400/2104 batches | lr 0.250 | ms/batch 7.22 | loss 0.27 |
epoch 3 | 1600/2104 batches | lr 0.250 | ms/batch 7.24 | loss 0.26 |
| epoch 3 | 1800/2104 batches | lr 0.250 | ms/batch 7.27 | loss 0.26 |
| epoch 3 | 2000/2104 batches | lr 0.250 | ms/batch 7.23 | loss 0.24 |
______
end of epoch 3 | time: 15.25s | valid loss 0.65 | valid acc 0.812 |
     .....
| epoch 4 | 200/2104 batches | lr 0.250 | ms/batch 7.30 | loss 0.28 |
| epoch 4 | 400/2104 batches | lr 0.250 | ms/batch 7.19 | loss 0.27 |
epoch 4 | 600/2104 batches | lr 0.250 | ms/batch 7.08 | loss 0.27 |
| epoch 4 | 800/2104 batches | lr 0.250 | ms/batch 7.23 | loss 0.26 |
| epoch 4 | 1000/2104 batches | lr 0.250 | ms/batch 7.28 | loss 0.26 |
epoch 4 | 1200/2104 batches | lr 0.250 | ms/batch 7.30 | loss 0.27 |
| epoch 4 | 1400/2104 batches | lr 0.250 | ms/batch 7.35 | loss 0.24 |
epoch 4 | 1600/2104 batches | lr 0.250 | ms/batch 7.28 | loss 0.24 |
| epoch 4 | 1800/2104 batches | lr 0.250 | ms/batch 7.26 | loss 0.24 |
| epoch 4 | 2000/2104 batches | lr 0.250 | ms/batch 7.32 | loss 0.22 |
______
end of epoch 4 | time: 15.34s | valid loss 0.64 | valid acc 0.817 |
______
| epoch 5 | 200/2104 batches | lr 0.250 | ms/batch 7.33 | loss 0.26 |
epoch 5 | 400/2104 batches | lr 0.250 | ms/batch 7.17 | loss 0.24 |
| epoch 5 | 600/2104 batches | lr 0.250 | ms/batch 7.11 | loss 0.25 |
```

```
epoch 5 | 800/2104 batches | lr 0.250 | ms/batch 7.11 | loss 0.24 |
| epoch 5 | 1000/2104 batches | lr 0.250 | ms/batch 7.22 | loss 0.23 |
epoch 5 | 1200/2104 batches | lr 0.250 | ms/batch 7.49 | loss 0.25 |
| epoch 5 | 1400/2104 batches | lr 0.250 | ms/batch 7.22 | loss 0.22 |
| epoch 5 | 1600/2104 batches | lr 0.250 | ms/batch 7.31 | loss 0.22 |
| epoch 5 | 1800/2104 batches | lr 0.250 | ms/batch 7.26 | loss 0.22 |
| epoch 5 | 2000/2104 batches | lr 0.250 | ms/batch 7.39 | loss 0.21 |
        _____
end of epoch 5 | time: 15.30s | valid loss 0.66 | valid acc 0.829 |
______
epoch 6 | 200/2104 batches | lr 0.062 | ms/batch 7.02 | loss 0.24 |
| epoch 6 | 400/2104 batches | lr 0.062 | ms/batch 7.15 | loss 0.22 |
| epoch 6 | 600/2104 batches | lr 0.062 | ms/batch 7.22 | loss 0.23 |
| epoch 6 | 800/2104 batches | lr 0.062 | ms/batch 7.26 | loss 0.22 |
| epoch 6 | 1000/2104 batches | lr 0.062 | ms/batch 7.31 | loss 0.20 |
| epoch 6 | 1200/2104 batches | lr 0.062 | ms/batch 7.45 | loss 0.22 |
epoch 6 | 1400/2104 batches | lr 0.062 | ms/batch 7.15 | loss 0.20 |
| epoch 6 | 1600/2104 batches | lr 0.062 | ms/batch 7.07 | loss 0.19 |
| epoch 6 | 1800/2104 batches | lr 0.062 | ms/batch 7.07 | loss 0.19 |
| epoch 6 | 2000/2104 batches | lr 0.062 | ms/batch 7.23 | loss 0.18 |
_____
end of epoch 6 | time: 15.21s | valid loss 0.67 | valid acc 0.821 |
_____
| epoch 7 | 200/2104 batches | lr 0.016 | ms/batch 7.27 | loss 0.23 |
| epoch 7 | 400/2104 batches | lr 0.016 | ms/batch 7.23 | loss 0.21 |
| epoch 7 | 600/2104 batches | lr 0.016 | ms/batch 7.21 | loss 0.22 |
epoch 7 | 800/2104 batches | lr 0.016 | ms/batch 7.23 | loss 0.21 |
| epoch 7 | 1000/2104 batches | lr 0.016 | ms/batch 7.19 | loss 0.19 |
| epoch 7 | 1200/2104 batches | lr 0.016 | ms/batch 7.21 | loss 0.22 |
epoch 7 | 1400/2104 batches | lr 0.016 | ms/batch 7.33 | loss 0.19 |
| epoch 7 | 1600/2104 batches | lr 0.016 | ms/batch 6.94 | loss 0.18 |
| epoch 7 | 1800/2104 batches | lr 0.016 | ms/batch 6.75 | loss 0.18 |
| epoch 7 | 2000/2104 batches | lr 0.016 | ms/batch 5.84 | loss 0.17 |
end of epoch 7 | time: 14.84s | valid loss 0.67 | valid acc 0.821 |
______
| epoch 8 | 200/2104 batches | lr 0.004 | ms/batch 7.32 | loss 0.23 |
| epoch 8 | 400/2104 batches | lr 0.004 | ms/batch 7.30 | loss 0.20 |
| epoch 8 | 600/2104 batches | lr 0.004 | ms/batch 7.28 | loss 0.22 |
| epoch 8 | 800/2104 batches | lr 0.004 | ms/batch 7.32 | loss 0.21 |
epoch 8 | 1000/2104 batches | lr 0.004 | ms/batch 7.37 | loss 0.19 |
| epoch 8 | 1200/2104 batches | lr 0.004 | ms/batch 7.29 | loss 0.21 |
| epoch 8 | 1400/2104 batches | lr 0.004 | ms/batch 7.16 | loss 0.19 |
| epoch 8 | 1600/2104 batches | lr 0.004 | ms/batch 7.11 | loss 0.18 |
| epoch 8 | 1800/2104 batches | lr 0.004 | ms/batch 7.18 | loss 0.18 |
epoch 8 | 2000/2104 batches | lr 0.004 | ms/batch 7.21 | loss 0.17 |
_____
end of epoch 8 | time: 15.32s | valid loss 0.67 | valid acc 0.829 |
______
| epoch 9 | 200/2104 batches | lr 0.001 | ms/batch 7.31 | loss 0.23 |
| epoch 9 | 400/2104 batches | lr 0.001 | ms/batch 7.25 | loss 0.21 |
```

```
| epoch 9 | 800/2104 batches | lr 0.001 | ms/batch 7.19 | loss 0.21 |
| epoch 9 | 1000/2104 batches | lr 0.001 | ms/batch 7.23 | loss 0.19 |
| epoch 9 | 1200/2104 batches | lr 0.001 | ms/batch 7.33 | loss 0.21 |
| epoch 9 | 1400/2104 batches | lr 0.001 | ms/batch 7.26 | loss 0.19 |
epoch 9 | 1600/2104 batches | lr 0.001 | ms/batch 7.28 | loss 0.18 |
| epoch 9 | 1800/2104 batches | lr 0.001 | ms/batch 7.10 | loss 0.18 |
| epoch 9 | 2000/2104 batches | lr 0.001 | ms/batch 7.23 | loss 0.17 |
 ______
| end of epoch 9 | time: 15.28s | valid loss 0.67 | valid acc 0.831 | |
| epoch 10 | 200/2104 batches | lr 0.000 | ms/batch 7.01 | loss 0.23 |
| epoch 10 | 400/2104 batches | lr 0.000 | ms/batch 6.83 | loss 0.21 |
| epoch 10 | 600/2104 batches | lr 0.000 | ms/batch 7.39 | loss 0.22 |
| epoch 10 | 800/2104 batches | lr 0.000 | ms/batch 7.07 | loss 0.21 |
epoch 10 | 1000/2104 batches | lr 0.000 | ms/batch 7.07 | loss 0.19 |
| epoch 10 | 1200/ 2104 batches | lr 0.000 | ms/batch 7.28 | loss 0.21 |
epoch 10 | 1400/2104 batches | lr 0.000 | ms/batch 7.29 | loss 0.19 |
| epoch 10 | 1600/2104 batches | lr 0.000 | ms/batch 7.04 | loss 0.18 |
| epoch 10 | 1800/ 2104 batches | lr 0.000 | ms/batch 6.99 | loss 0.18 |
epoch 10 | 2000/2104 batches | lr 0.000 | ms/batch 7.07 | loss 0.17 |
end of epoch 10 | time: 15.03s | valid loss 0.67 | valid acc 0.824 |
   _____
| End of training | test loss 0.56 | test acc 0.855 |
learning_rate: 1, dropout: 0.1, batch_size: 64
    ______
| epoch 1 | 200/1052 batches | lr 1.000 | ms/batch 8.68 | loss 0.69 |
| epoch 1 | 400/1052 batches | lr 1.000 | ms/batch 7.51 | loss 0.69 |
epoch 1 | 600/1052 batches | lr 1.000 | ms/batch 7.44 | loss 0.69 |
| epoch 1 | 800/1052 batches | lr 1.000 | ms/batch 7.50 | loss 0.69 |
| epoch 1 | 1000/1052 batches | lr 1.000 | ms/batch 7.50 | loss 0.69 |
| end of epoch 1 | time: 8.18s | valid loss 0.70 | valid acc 0.555 |
______
| epoch 2 | 200/1052 batches | lr 1.000 | ms/batch 7.42 | loss 0.67 |
| epoch 2 | 400/1052 batches | lr 1.000 | ms/batch 7.44 | loss 0.63 |
| epoch 2 | 600/1052 batches | lr 1.000 | ms/batch 7.21 | loss 0.57 |
| epoch 2 | 800/1052 batches | lr 1.000 | ms/batch 7.47 | loss 0.53 |
| epoch 2 | 1000/1052 batches | lr 1.000 | ms/batch 7.40 | loss 0.49 |
   _____
end of epoch 2 | time: 7.83s | valid loss 0.57 | valid acc 0.736 |
| epoch 3 | 200/1052 batches | lr 1.000 | ms/batch 7.49 | loss 0.45 |
epoch 3 | 400/1052 batches | lr 1.000 | ms/batch 7.36 | loss 0.43 |
| epoch 3 | 600/1052 batches | lr 1.000 | ms/batch 7.36 | loss 0.41 |
```

epoch 9 | 600/2104 batches | lr 0.001 | ms/batch 7.27 | loss 0.22 |

```
| epoch 3 | 1000/1052 batches | lr 1.000 | ms/batch 7.39 | loss 0.36 |
_____
| end of epoch 3 | time: 7.84s | valid loss 0.58 | valid acc 0.786 |
_____
epoch 4 | 200/1052 batches | lr 0.250 | ms/batch 7.43 | loss 0.31 |
| epoch 4 | 400/1052 batches | lr 0.250 | ms/batch 7.49 | loss 0.30 |
| epoch 4 | 600/1052 batches | lr 0.250 | ms/batch 6.48 | loss 0.28 |
| epoch 4 | 800/1052 batches | lr 0.250 | ms/batch 7.51 | loss 0.27 |
| epoch 4 | 1000/1052 batches | lr 0.250 | ms/batch 7.44 | loss 0.26 |
   -----
end of epoch 4 | time: 7.72s | valid loss 0.61 | valid acc 0.812 |
______
| epoch 5 | 200/1052 batches | lr 0.062 | ms/batch 7.52 | loss 0.27 |
| epoch 5 | 400/1052 batches | lr 0.062 | ms/batch 7.49 | loss 0.27 |
| epoch 5 | 600/1052 batches | lr 0.062 | ms/batch 7.46 | loss 0.26 |
| epoch 5 | 800/1052 batches | lr 0.062 | ms/batch 7.43 | loss 0.24 |
| epoch 5 | 1000/1052 batches | lr 0.062 | ms/batch 7.45 | loss 0.23 |
end of epoch 5 | time: 7.92s | valid loss 0.62 | valid acc 0.810 |
______
| epoch 6 | 200/1052 batches | lr 0.016 | ms/batch 7.55 | loss 0.26 |
| epoch 6 | 400/1052 batches | lr 0.016 | ms/batch 7.39 | loss 0.26 |
epoch 6 | 600/1052 batches | lr 0.016 | ms/batch 7.15 | loss 0.25 |
epoch 6 | 800/1052 batches | lr 0.016 | ms/batch 7.32 | loss 0.23 |
| epoch 6 | 1000/1052 batches | lr 0.016 | ms/batch 7.50 | loss 0.23 |
_____
| end of epoch 6 | time: 7.83s | valid loss 0.61 | valid acc 0.810 |
_____
| epoch 7 | 200/1052 batches | lr 0.004 | ms/batch 7.62 | loss 0.26 |
| epoch 7 | 400/1052 batches | lr 0.004 | ms/batch 7.43 | loss 0.26 |
| epoch 7 | 600/1052 batches | lr 0.004 | ms/batch 7.47 | loss 0.24 |
epoch 7 | 800/1052 batches | lr 0.004 | ms/batch 7.50 | loss 0.23 |
| epoch 7 | 1000/1052 batches | lr 0.004 | ms/batch 7.54 | loss 0.23 |
       _____
end of epoch 7 | time: 7.95s | valid loss 0.61 | valid acc 0.810 |
_____
epoch 8 | 200/1052 batches | lr 0.001 | ms/batch 7.43 | loss 0.26 |
| epoch 8 | 400/1052 batches | lr 0.001 | ms/batch 7.51 | loss 0.25 |
| epoch 8 | 600/1052 batches | lr 0.001 | ms/batch 7.51 | loss 0.25 |
| epoch 8 | 800/1052 batches | lr 0.001 | ms/batch 7.46 | loss 0.23 |
| epoch 8 | 1000/1052 batches | lr 0.001 | ms/batch 7.29 | loss 0.22 |
______
end of epoch 8 | time: 7.89s | valid loss 0.61 | valid acc 0.810 |
______
| epoch 9 | 200/1052 batches | lr 0.000 | ms/batch 7.41 | loss 0.26 |
| epoch 9 | 400/1052 batches | lr 0.000 | ms/batch 7.46 | loss 0.25 |
| epoch 9 | 600/1052 batches | lr 0.000 | ms/batch 7.40 | loss 0.24 |
| epoch 9 | 800/1052 batches | lr 0.000 | ms/batch 7.44 | loss 0.23 |
epoch 9 | 1000/1052 batches | lr 0.000 | ms/batch 7.41 | loss 0.22 |
```

| epoch 3 | 800/1052 batches | lr 1.000 | ms/batch 7.40 | loss 0.38 |

```
end of epoch 9 | time: 7.87s | valid loss 0.61 | valid acc 0.810 |
     .....
| epoch 10 | 200/1052 batches | lr 0.000 | ms/batch 7.45 | loss 0.26 |
| epoch 10 | 400/1052 batches | lr 0.000 | ms/batch 7.26 | loss 0.25 |
| epoch 10 | 600/1052 batches | lr 0.000 | ms/batch 7.32 | loss 0.25 |
epoch 10 | 800/1052 batches | lr 0.000 | ms/batch 7.41 | loss 0.23 |
epoch 10 | 1000/1052 batches | lr 0.000 | ms/batch 7.48 | loss 0.22 |
        _____
end of epoch 10 | time: 7.83s | valid loss 0.61 | valid acc 0.810 |
| End of training | test loss 0.55 | test acc 0.779 |
______
learning_rate: 1, dropout: 0.2, batch_size: 32
______
| epoch 1 | 200/2104 batches | lr 1.000 | ms/batch 8.10 | loss 0.70 |
| epoch 1 | 400/2104 batches | lr 1.000 | ms/batch 6.16 | loss 0.69 |
| epoch 1 | 600/2104 batches | lr 1.000 | ms/batch 6.76 | loss 0.69 |
| epoch 1 | 800/2104 batches | lr 1.000 | ms/batch 7.30 | loss 0.69 |
| epoch 1 | 1000/2104 batches | lr 1.000 | ms/batch 7.33 | loss 0.69 |
| epoch 1 | 1200/2104 batches | lr 1.000 | ms/batch 7.33 | loss 0.69 |
| epoch 1 | 1400/2104 batches | lr 1.000 | ms/batch 7.39 | loss 0.69 |
| epoch 1 | 1600/2104 batches | lr 1.000 | ms/batch 7.27 | loss 0.68 |
| epoch 1 | 1800/2104 batches | lr 1.000 | ms/batch 6.96 | loss 0.65 |
| epoch 1 | 2000/2104 batches | lr 1.000 | ms/batch 7.01 | loss 0.60 |
    _____
end of epoch 1 | time: 15.11s | valid loss 0.66 | valid acc 0.681 |
______
| epoch 2 | 200/2104 batches | lr 1.000 | ms/batch 7.38 | loss 0.54 |
| epoch 2 | 400/2104 batches | lr 1.000 | ms/batch 7.02 | loss 0.51 |
| epoch 2 | 600/2104 batches | lr 1.000 | ms/batch 7.04 | loss 0.50 |
| epoch 2 | 800/2104 batches | lr 1.000 | ms/batch 7.12 | loss 0.48 |
| epoch 2 | 1000/2104 batches | lr 1.000 | ms/batch 7.02 | loss 0.46 |
| epoch 2 | 1200/2104 batches | lr 1.000 | ms/batch 7.28 | loss 0.44 |
| epoch 2 | 1400/2104 batches | lr 1.000 | ms/batch 7.28 | loss 0.41 |
| epoch 2 | 1600/2104 batches | lr 1.000 | ms/batch 7.27 | loss 0.39 |
| epoch 2 | 1800/2104 batches | lr 1.000 | ms/batch 7.29 | loss 0.38 |
epoch 2 | 2000/2104 batches | lr 1.000 | ms/batch 7.27 | loss 0.37 |
end of epoch 2 | time: 15.21s | valid loss 0.80 | valid acc 0.769 |
-----
| epoch 3 | 200/2104 batches | lr 0.250 | ms/batch 7.32 | loss 0.33 |
| epoch 3 | 400/2104 batches | lr 0.250 | ms/batch 7.21 | loss 0.31 |
| epoch 3 | 600/2104 batches | lr 0.250 | ms/batch 7.22 | loss 0.32 |
| epoch 3 | 800/2104 batches | lr 0.250 | ms/batch 7.05 | loss 0.30 |
| epoch 3 | 1000/2104 batches | lr 0.250 | ms/batch 7.07 | loss 0.30 |
epoch 3 | 1200/2104 batches | lr 0.250 | ms/batch 7.16 | loss 0.30 |
```

| epoch 3 | 1400/2104 batches | lr 0.250 | ms/batch 7.10 | loss 0.28 |

```
| epoch 3 | 1600/2104 batches | lr 0.250 | ms/batch 7.08 | loss 0.27 |
| epoch 3 | 1800/2104 batches | lr 0.250 | ms/batch 7.03 | loss 0.27 |
| epoch 3 | 2000/2104 batches | lr 0.250 | ms/batch 7.26 | loss 0.25 |
_____
end of epoch 3 | time: 15.13s | valid loss 0.61 | valid acc 0.814 |
______
| epoch 4 | 200/2104 batches | lr 0.250 | ms/batch 7.36 | loss 0.30 |
| epoch 4 | 400/2104 batches | lr 0.250 | ms/batch 7.31 | loss 0.27 |
epoch 4 | 600/2104 batches | lr 0.250 | ms/batch 7.28 | loss 0.28 |
| epoch 4 | 800/2104 batches | lr 0.250 | ms/batch 7.22 | loss 0.27 |
| epoch 4 | 1000/2104 batches | lr 0.250 | ms/batch 7.05 | loss 0.27 |
| epoch 4 | 1200/2104 batches | lr 0.250 | ms/batch 7.05 | loss 0.28 |
| epoch 4 | 1400/2104 batches | lr 0.250 | ms/batch 6.98 | loss 0.25 |
| epoch 4 | 1600/2104 batches | lr 0.250 | ms/batch 6.99 | loss 0.25 |
| epoch 4 | 1800/2104 batches | lr 0.250 | ms/batch 7.04 | loss 0.25 |
| epoch 4 | 2000/2104 batches | lr 0.250 | ms/batch 7.01 | loss 0.23 |
_____
end of epoch 4 | time: 15.05s | valid loss 0.65 | valid acc 0.817 |
| epoch 5 | 200/2104 batches | lr 0.062 | ms/batch 7.04 | loss 0.27 |
| epoch 5 | 400/2104 batches | lr 0.062 | ms/batch 7.05 | loss 0.25 |
epoch 5 | 600/2104 batches | lr 0.062 | ms/batch 7.02 | loss 0.26 |
| epoch 5 | 800/2104 batches | lr 0.062 | ms/batch 7.02 | loss 0.25 |
epoch 5 | 1000/2104 batches | lr 0.062 | ms/batch 7.00 | loss 0.24 |
epoch 5 | 1200/2104 batches | lr 0.062 | ms/batch 6.97 | loss 0.25 |
| epoch 5 | 1400/2104 batches | lr 0.062 | ms/batch 6.99 | loss 0.23 |
| epoch 5 | 1600/2104 batches | lr 0.062 | ms/batch 7.02 | loss 0.22 |
| epoch 5 | 1800/2104 batches | lr 0.062 | ms/batch 7.02 | loss 0.22 |
| epoch 5 | 2000/2104 batches | lr 0.062 | ms/batch 7.35 | loss 0.21 |
______
end of epoch 5 | time: 14.91s | valid loss 0.66 | valid acc 0.819 |
    ______
| epoch 6 | 200/2104 batches | lr 0.016 | ms/batch 7.33 | loss 0.26 |
| epoch 6 | 400/2104 batches | lr 0.016 | ms/batch 7.32 | loss 0.24 |
| epoch 6 | 600/2104 batches | lr 0.016 | ms/batch 7.26 | loss 0.25 |
| epoch 6 | 800/2104 batches | lr 0.016 | ms/batch 7.25 | loss 0.24 |
| epoch 6 | 1000/2104 batches | lr 0.016 | ms/batch 7.16 | loss 0.23 |
epoch 6 | 1200/2104 batches | lr 0.016 | ms/batch 7.20 | loss 0.25 |
| epoch 6 | 1400/2104 batches | lr 0.016 | ms/batch 7.22 | loss 0.22 |
| epoch 6 | 1600/2104 batches | lr 0.016 | ms/batch 7.18 | loss 0.21 |
| epoch 6 | 1800/2104 batches | lr 0.016 | ms/batch 7.32 | loss 0.22 |
| epoch 6 | 2000/2104 batches | lr 0.016 | ms/batch 7.28 | loss 0.20 |
______
end of epoch 6 | time: 15.33s | valid loss 0.65 | valid acc 0.817 |
______
| epoch 7 | 200/2104 batches | lr 0.004 | ms/batch 7.33 | loss 0.26 |
| epoch 7 | 400/2104 batches | lr 0.004 | ms/batch 7.40 | loss 0.23 |
| epoch 7 | 600/2104 batches | lr 0.004 | ms/batch 7.32 | loss 0.25 |
| epoch 7 | 800/2104 batches | lr 0.004 | ms/batch 7.28 | loss 0.24 |
epoch 7 | 1000/2104 batches | lr 0.004 | ms/batch 7.30 | loss 0.23 |
| epoch 7 | 1200/2104 batches | lr 0.004 | ms/batch 7.30 | loss 0.25 |
```

```
epoch 7 | 1400/2104 batches | lr 0.004 | ms/batch 7.40 | loss 0.22 |
| epoch 7 | 1600/2104 batches | lr 0.004 | ms/batch 7.43 | loss 0.21 |
epoch 7 | 1800/2104 batches | lr 0.004 | ms/batch 6.90 | loss 0.21 |
epoch 7 | 2000/2104 batches | lr 0.004 | ms/batch 7.07 | loss 0.20 |
   ______
end of epoch 7 | time: 15.37s | valid loss 0.64 | valid acc 0.812 |
______
| epoch 8 | 200/2104 batches | lr 0.001 | ms/batch 7.34 | loss 0.25 |
epoch 8 | 400/2104 batches | lr 0.001 | ms/batch 7.28 | loss 0.23 |
| epoch 8 | 600/2104 batches | lr 0.001 | ms/batch 7.38 | loss 0.25 |
| epoch 8 | 800/2104 batches | lr 0.001 | ms/batch 7.45 | loss 0.23 |
| epoch 8 | 1000/2104 batches | lr 0.001 | ms/batch 7.11 | loss 0.23 |
| epoch 8 | 1200/2104 batches | lr 0.001 | ms/batch 7.17 | loss 0.24 |
| epoch 8 | 1400/2104 batches | lr 0.001 | ms/batch 7.25 | loss 0.22 |
| epoch 8 | 1600/2104 batches | lr 0.001 | ms/batch 7.47 | loss 0.21 |
| epoch 8 | 1800/2104 batches | lr 0.001 | ms/batch 7.38 | loss 0.21 |
| epoch 8 | 2000/2104 batches | lr 0.001 | ms/batch 7.31 | loss 0.20 |
_____
end of epoch 8 | time: 15.45s | valid loss 0.65 | valid acc 0.817 |
_____
| epoch 9 | 200/2104 batches | lr 0.000 | ms/batch 7.32 | loss 0.25 |
| epoch 9 | 400/2104 batches | lr 0.000 | ms/batch 7.30 | loss 0.23 |
| epoch 9 | 600/2104 batches | lr 0.000 | ms/batch 7.32 | loss 0.25 |
epoch 9 | 800/2104 batches | lr 0.000 | ms/batch 7.26 | loss 0.23 |
| epoch 9 | 1000/2104 batches | lr 0.000 | ms/batch 7.25 | loss 0.22 |
| epoch 9 | 1200/2104 batches | lr 0.000 | ms/batch 7.29 | loss 0.24 |
| epoch 9 | 1400/2104 batches | lr 0.000 | ms/batch 7.12 | loss 0.22 |
| epoch 9 | 1600/2104 batches | lr 0.000 | ms/batch 7.05 | loss 0.21 |
| epoch 9 | 1800/2104 batches | lr 0.000 | ms/batch 7.18 | loss 0.21 |
| epoch 9 | 2000/2104 batches | lr 0.000 | ms/batch 7.10 | loss 0.20 |
end of epoch 9 | time: 15.23s | valid loss 0.65 | valid acc 0.817 |
______
| epoch 10 | 200/2104 batches | lr 0.000 | ms/batch 7.01 | loss 0.25 |
| epoch 10 | 400/2104 batches | lr 0.000 | ms/batch 6.99 | loss 0.23 |
epoch 10 | 600/2104 batches | lr 0.000 | ms/batch 7.05 | loss 0.25 |
| epoch 10 | 800/2104 batches | lr 0.000 | ms/batch 7.10 | loss 0.24 |
epoch 10 | 1000/2104 batches | lr 0.000 | ms/batch 7.04 | loss 0.22 |
| epoch 10 | 1200/ 2104 batches | lr 0.000 | ms/batch 6.98 | loss 0.24 |
| epoch 10 | 1400/2104 batches | lr 0.000 | ms/batch 7.10 | loss 0.22 |
epoch 10 | 1600/2104 batches | lr 0.000 | ms/batch 7.00 | loss 0.21 |
| epoch 10 | 1800/2104 batches | lr 0.000 | ms/batch 7.11 | loss 0.21 |
epoch 10 | 2000/2104 batches | lr 0.000 | ms/batch 7.02 | loss 0.20 |
______
end of epoch 10 | time: 14.87s | valid loss 0.65 | valid acc 0.817 |
   ._____
______
| End of training | test loss 0.55 | test acc 0.850 |
______
```

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```
learning rate: 1, dropout: 0.2, batch size: 64
| epoch 1 | 200/1052 batches | lr 1.000 | ms/batch 8.60 | loss 0.69 |
| epoch 1 | 400/1052 batches | lr 1.000 | ms/batch 7.26 | loss 0.69 |
| epoch 1 | 600/1052 batches | lr 1.000 | ms/batch 7.49 | loss 0.69 |
| epoch 1 | 800/1052 batches | lr 1.000 | ms/batch 7.49 | loss 0.69 |
| epoch 1 | 1000/1052 batches | lr 1.000 | ms/batch 7.49 | loss 0.69 |
_____
| end of epoch | 1 | time: 8.12s | valid loss | 0.69 | valid acc | 0.557 |
| epoch 2 | 200/1052 batches | lr 1.000 | ms/batch 7.57 | loss 0.67 |
| epoch 2 | 400/1052 batches | lr 1.000 | ms/batch 7.56 | loss 0.63 |
| epoch 2 | 600/1052 batches | lr 1.000 | ms/batch 7.60 | loss 0.58 |
| epoch 2 | 800/1052 batches | lr 1.000 | ms/batch 7.53 | loss 0.53 |
| epoch 2 | 1000/1052 batches | lr 1.000 | ms/batch 7.53 | loss 0.50 |
_____
| end of epoch 2 | time: 8.01s | valid loss 0.57 | valid acc 0.750 | |
| epoch 3 | 200/1052 batches | lr 1.000 | ms/batch 7.48 | loss 0.46 |
| epoch 3 | 400/1052 batches | lr 1.000 | ms/batch 7.22 | loss 0.44 |
| epoch 3 | 600/1052 batches | lr 1.000 | ms/batch 7.24 | loss 0.41 |
| epoch 3 | 800/1052 batches | lr 1.000 | ms/batch 7.31 | loss 0.39 |
| epoch 3 | 1000/1052 batches | lr 1.000 | ms/batch 7.22 | loss 0.37 |
| end of epoch 3 | time: 7.75s | valid loss 0.55 | valid acc 0.798 |
______
| epoch 4 | 200/1052 batches | lr 1.000 | ms/batch 7.52 | loss 0.36 |
| epoch 4 | 400/1052 batches | lr 1.000 | ms/batch 7.57 | loss 0.35 |
epoch 4 | 600/1052 batches | lr 1.000 | ms/batch 7.47 | loss 0.34 |
| epoch 4 | 800/1052 batches | lr 1.000 | ms/batch 7.39 | loss 0.32 |
| epoch 4 | 1000/1052 batches | lr 1.000 | ms/batch 7.45 | loss 0.31 |
______
end of epoch 4 | time: 7.92s | valid loss 0.60 | valid acc 0.819 |
| epoch 5 | 200/1052 batches | lr 0.250 | ms/batch 7.30 | loss 0.27 |
| epoch 5 | 400/1052 batches | lr 0.250 | ms/batch 7.45 | loss 0.27 |
epoch 5 | 600/1052 batches | lr 0.250 | ms/batch 7.41 | loss 0.26 |
| epoch 5 | 800/1052 batches | lr 0.250 | ms/batch 7.41 | loss 0.24 |
| epoch 5 | 1000/1052 batches | lr 0.250 | ms/batch 7.42 | loss 0.23 |
_____
| end of epoch 5 | time: 7.84s | valid loss 0.60 | valid acc 0.812 |
______
| epoch 6 | 200/1052 batches | lr 0.062 | ms/batch 7.47 | loss 0.25 |
epoch 6 | 400/1052 batches | lr 0.062 | ms/batch 7.51 | loss 0.24 |
| epoch 6 | 600/1052 batches | lr 0.062 | ms/batch 7.47 | loss 0.23 |
| epoch 6 | 800/1052 batches | lr 0.062 | ms/batch 7.46 | loss 0.22 |
| epoch 6 | 1000/1052 batches | lr 0.062 | ms/batch 7.51 | loss 0.21 |
______
end of epoch 6 | time: 7.92s | valid loss 0.62 | valid acc 0.812 |
```

```
200/ 1052 batches | lr 0.016 | ms/batch 7.56 | loss 0.24 |
           400/ 1052 batches | lr 0.016 | ms/batch 7.40 | loss 0.23 |
epoch 7
| epoch 7 | 600/1052 batches | lr 0.016 | ms/batch 7.46 | loss 0.23 |
| epoch 7 | 800/1052 batches | lr 0.016 | ms/batch 7.45 | loss 0.21 |
| epoch 7 | 1000/1052 batches | lr 0.016 | ms/batch 7.57 | loss 0.21 |
______
end of epoch 7 | time: 7.94s | valid loss 0.62 | valid acc 0.821 |
epoch 8 | 200/1052 batches | lr 0.004 | ms/batch 7.47 | loss 0.24 |
| epoch 8 | 400/1052 batches | lr 0.004 | ms/batch 7.51 | loss 0.24 |
| epoch 8 | 600/1052 batches | lr 0.004 | ms/batch 7.48 | loss 0.22 |
| epoch 8 | 800/1052 batches | lr 0.004 | ms/batch 7.25 | loss 0.21 |
| epoch 8 | 1000/1052 batches | lr 0.004 | ms/batch 7.27 | loss 0.21 |
_____
end of epoch 8 | time: 7.84s | valid loss 0.62 | valid acc 0.819 |
epoch 9 | 200/1052 batches | lr 0.001 | ms/batch 7.54 | loss 0.24 |
| epoch 9 | 400/1052 batches | lr 0.001 | ms/batch 7.51 | loss 0.23 |
| epoch 9 | 600/1052 batches | lr 0.001 | ms/batch 7.55 | loss 0.22 |
| epoch 9 | 800/1052 batches | lr 0.001 | ms/batch 7.52 | loss 0.21 |
| epoch 9 | 1000/1052 batches | lr 0.001 | ms/batch 7.35 | loss 0.20 |
end of epoch 9 | time: 7.94s | valid loss 0.62 | valid acc 0.819 |
______
epoch 10 | 200/1052 batches | lr 0.000 | ms/batch 7.30 | loss 0.24 |
| epoch 10 | 400/1052 batches | lr 0.000 | ms/batch 7.27 | loss 0.23 |
| epoch 10 | 600/1052 batches | lr 0.000 | ms/batch 7.31 | loss 0.23 |
| epoch 10 | 800/1052 batches | lr 0.000 | ms/batch 7.33 | loss 0.21 |
epoch 10 | 1000/1052 batches | lr 0.000 | ms/batch 7.51 | loss 0.20 |
______
end of epoch 10 | time: 7.79s | valid loss 0.62 | valid acc 0.817 |
 ______
| End of training | test loss 0.51 | test acc 0.810 |
______
learning rate: 10, dropout: 0.1, batch size: 32
| epoch 1 | 200/2104 batches | lr 10.000 | ms/batch 8.01 | loss 1.06 |
| epoch 1 | 400/2104 batches | lr 10.000 | ms/batch 7.38 | loss 1.04 |
| epoch 1 | 600/2104 batches | lr 10.000 | ms/batch 7.31 | loss 1.01 |
| epoch 1 | 800/2104 batches | lr 10.000 | ms/batch 7.40 | loss 1.02 |
| epoch 1 | 1000/2104 batches | lr 10.000 | ms/batch 7.32 | loss 1.02 |
epoch 1 | 1200/2104 batches | lr 10.000 | ms/batch 7.29 | loss 1.03 |
| epoch 1 | 1400/2104 batches | lr 10.000 | ms/batch 7.27 | loss 1.04 |
| epoch 1 | 1600/2104 batches | lr 10.000 | ms/batch 7.42 | loss 1.01 |
| epoch 1 | 1800/2104 batches | lr 10.000 | ms/batch 7.39 | loss 1.03 |
epoch 1 | 2000/2104 batches | lr 10.000 | ms/batch 7.43 | loss 1.05 |
```

```
end of epoch 1 | time: 15.65s | valid loss 1.10 | valid acc 0.483 |
    -----
| epoch 2 | 200/2104 batches | lr 10.000 | ms/batch 7.37 | loss 1.04 |
           400/2104 batches | lr 10.000 | ms/batch 7.40 | loss 1.04 |
epoch 2
| epoch 2 | 600/2104 batches | lr 10.000 | ms/batch 7.36 | loss 1.01 |
| epoch 2 | 800/2104 batches | lr 10.000 | ms/batch 7.36 | loss 1.02 |
| epoch 2 | 1000/2104 batches | lr 10.000 | ms/batch 7.34 | loss 1.02 |
| epoch 2 | 1200/2104 batches | lr 10.000 | ms/batch 7.20 | loss 1.02 |
epoch 2 | 1400/2104 batches | lr 10.000 | ms/batch 7.05 | loss 1.04 |
| epoch 2 | 1600/2104 batches | lr 10.000 | ms/batch 7.39 | loss 1.01 |
| epoch 2 | 1800/2104 batches | lr 10.000 | ms/batch 7.33 | loss 1.03 |
epoch 2 | 2000/2104 batches | lr 10.000 | ms/batch 7.33 | loss 1.04 |
end of epoch 2 | time: 15.45s | valid loss 1.11 | valid acc 0.483 |
______
| epoch 3 | 200/2104 batches | lr 2.500 | ms/batch 7.32 | loss 0.71 |
| epoch 3 | 400/2104 batches | lr 2.500 | ms/batch 7.01 | loss 0.70 |
| epoch 3 | 600/2104 batches | lr 2.500 | ms/batch 7.08 | loss 0.71 |
| epoch 3 | 800/2104 batches | lr 2.500 | ms/batch 7.10 | loss 0.70 |
| epoch 3 | 1000/2104 batches | lr 2.500 | ms/batch 7.13 | loss 0.70 |
| epoch 3 | 1200/2104 batches | lr 2.500 | ms/batch 7.05 | loss 0.70 |
| epoch 3 | 1400/2104 batches | lr 2.500 | ms/batch 7.05 | loss 0.70 |
| epoch 3 | 1600/2104 batches | lr 2.500 | ms/batch 7.17 | loss 0.70 |
| epoch 3 | 1800/2104 batches | lr 2.500 | ms/batch 7.29 | loss 0.70 |
| epoch 3 | 2000/2104 batches | lr 2.500 | ms/batch 7.37 | loss 0.71 |
_____
end of epoch 3 | time: 15.14s | valid loss 0.69 | valid acc 0.605 |
______
| epoch 4 | 200/2104 batches | lr 2.500 | ms/batch 7.32 | loss 0.67 |
epoch 4 | 400/2104 batches | lr 2.500 | ms/batch 7.27 | loss 0.60 |
| epoch 4 | 600/2104 batches | lr 2.500 | ms/batch 7.26 | loss 0.55 |
| epoch 4 | 800/2104 batches | lr 2.500 | ms/batch 7.33 | loss 0.51 |
epoch 4 | 1000/2104 batches | lr 2.500 | ms/batch 7.38 | loss 0.47 |
| epoch 4 | 1200/2104 batches | lr 2.500 | ms/batch 7.41 | loss 0.45 |
| epoch 4 | 1400/2104 batches | lr 2.500 | ms/batch 7.37 | loss 0.41 |
epoch 4 | 1600/2104 batches | lr 2.500 | ms/batch 7.42 | loss 0.38 |
| epoch 4 | 1800/2104 batches | lr 2.500 | ms/batch 7.37 | loss 0.39 |
| epoch 4 | 2000/2104 batches | lr 2.500 | ms/batch 7.42 | loss 0.35 |
______
end of epoch 4 | time: 15.45s | valid loss 0.84 | valid acc 0.776 |
_____
| epoch 5 | 200/2104 batches | lr 0.625 | ms/batch 6.02 | loss 0.31 |
| epoch 5 | 400/2104 batches | lr 0.625 | ms/batch 7.32 | loss 0.28 |
| epoch 5 | 600/2104 batches | lr 0.625 | ms/batch 7.41 | loss 0.28 |
| epoch 5 | 800/2104 batches | lr 0.625 | ms/batch 7.42 | loss 0.26 |
| epoch 5 | 1000/2104 batches | lr 0.625 | ms/batch 7.38 | loss 0.25 |
| epoch 5 | 1200/2104 batches | lr 0.625 | ms/batch 7.11 | loss 0.26 |
| epoch 5 | 1400/2104 batches | lr 0.625 | ms/batch 6.34 | loss 0.23 |
| epoch 5 | 1600/2104 batches | lr 0.625 | ms/batch 7.22 | loss 0.22 |
epoch 5 | 1800/2104 batches | lr 0.625 | ms/batch 7.38 | loss 0.23 |
| epoch 5 | 2000/2104 batches | lr 0.625 | ms/batch 7.38 | loss 0.20 |
```

```
| end of epoch 5 | time: 15.03s | valid loss 0.58 | valid acc 0.812 | |
| epoch 6 | 200/2104 batches | lr 0.625 | ms/batch 7.49 | loss 0.25 |
| epoch 6 | 400/2104 batches | lr 0.625 | ms/batch 7.43 | loss 0.23 |
epoch 6 | 600/2104 batches | lr 0.625 | ms/batch 7.35 | loss 0.23 |
| epoch 6 | 800/2104 batches | lr 0.625 | ms/batch 7.36 | loss 0.23 |
| epoch 6 | 1000/2104 batches | lr 0.625 | ms/batch 7.20 | loss 0.21 |
epoch 6 | 1200/2104 batches | lr 0.625 | ms/batch 6.55 | loss 0.22 |
| epoch 6 | 1400/2104 batches | lr 0.625 | ms/batch 6.68 | loss 0.20 |
| epoch 6 | 1600/2104 batches | lr 0.625 | ms/batch 7.12 | loss 0.19 |
| epoch 6 | 1800/2104 batches | lr 0.625 | ms/batch 7.13 | loss 0.20 |
| epoch 6 | 2000/2104 batches | lr 0.625 | ms/batch 7.11 | loss 0.19 |
       ______
end of epoch 6 | time: 15.09s | valid loss 0.57 | valid acc 0.810 |
epoch 7 | 200/2104 batches | lr 0.625 | ms/batch 7.20 | loss 0.22 |
| epoch 7 | 400/2104 batches | lr 0.625 | ms/batch 7.24 | loss 0.21 |
| epoch 7 | 600/2104 batches | lr 0.625 | ms/batch 7.08 | loss 0.20 |
| epoch 7 | 800/2104 batches | lr 0.625 | ms/batch 7.07 | loss 0.20 |
| epoch 7 | 1000/2104 batches | lr 0.625 | ms/batch 7.31 | loss 0.18 |
epoch 7 | 1200/2104 batches | lr 0.625 | ms/batch 7.25 | loss 0.20 |
| epoch 7 | 1400/2104 batches | lr 0.625 | ms/batch 7.15 | loss 0.18 |
epoch 7 | 1600/2104 batches | lr 0.625 | ms/batch 7.32 | loss 0.17 |
| epoch 7 | 1800/2104 batches | lr 0.625 | ms/batch 7.18 | loss 0.19 |
| epoch 7 | 2000/2104 batches | lr 0.625 | ms/batch 7.18 | loss 0.17 |
       ______
end of epoch 7 | time: 15.20s | valid loss 0.58 | valid acc 0.826 |
    -----
epoch 8 | 200/2104 batches | lr 0.156 | ms/batch 7.46 | loss 0.20 |
| epoch 8 | 400/2104 batches | lr 0.156 | ms/batch 7.40 | loss 0.18 |
epoch 8 | 600/2104 batches | lr 0.156 | ms/batch 7.21 | loss 0.18 |
epoch 8 | 800/2104 batches | lr 0.156 | ms/batch 7.06 | loss 0.18 |
| epoch 8 | 1000/2104 batches | lr 0.156 | ms/batch 7.17 | loss 0.15 |
| epoch 8 | 1200/2104 batches | lr 0.156 | ms/batch 7.11 | loss 0.17 |
epoch 8 | 1400/2104 batches | lr 0.156 | ms/batch 7.11 | loss 0.14 |
| epoch 8 | 1600/2104 batches | lr 0.156 | ms/batch 7.06 | loss 0.14 |
epoch 8 | 1800/2104 batches | lr 0.156 | ms/batch 7.05 | loss 0.15 |
| epoch 8 | 2000/2104 batches | lr 0.156 | ms/batch 7.24 | loss 0.14 |
______
end of epoch 8 | time: 15.18s | valid loss 0.58 | valid acc 0.845 |
| epoch 9 | 200/2104 batches | lr 0.039 | ms/batch 7.22 | loss 0.19 |
| epoch 9 | 400/2104 batches | lr 0.039 | ms/batch 7.20 | loss 0.17 |
| epoch 9 | 600/2104 batches | lr 0.039 | ms/batch 7.27 | loss 0.17 |
| epoch 9 | 800/2104 batches | lr 0.039 | ms/batch 7.27 | loss 0.17 |
| epoch 9 | 1000/2104 batches | lr 0.039 | ms/batch 7.03 | loss 0.14 |
| epoch 9 | 1200/2104 batches | lr 0.039 | ms/batch 7.27 | loss 0.16 |
| epoch 9 | 1400/2104 batches | lr 0.039 | ms/batch 7.16 | loss 0.14 |
| epoch 9 | 1600/2104 batches | lr 0.039 | ms/batch 7.22 | loss 0.13 |
| epoch 9 | 1800/2104 batches | lr 0.039 | ms/batch 7.18 | loss 0.14 |
```

```
| epoch 9 | 2000/2104 batches | lr 0.039 | ms/batch 7.18 | loss 0.13 |
      ______
end of epoch 9 | time: 15.21s | valid loss 0.58 | valid acc 0.845 |
_____
| epoch 10 | 200/2104 batches | lr 0.010 | ms/batch 7.30 | loss 0.19 |
epoch 10 | 400/2104 batches | lr 0.010 | ms/batch 7.08 | loss 0.17 |
| epoch 10 | 600/2104 batches | lr 0.010 | ms/batch 7.37 | loss 0.17 |
| epoch 10 | 800/2104 batches | lr 0.010 | ms/batch 7.16 | loss 0.17 |
epoch 10 | 1000/2104 batches | lr 0.010 | ms/batch 7.17 | loss 0.14 |
| epoch 10 | 1200/ 2104 batches | lr 0.010 | ms/batch 7.06 | loss 0.16 |
| epoch 10 | 1400/ 2104 batches | lr 0.010 | ms/batch 7.26 | loss 0.13 |
| epoch 10 | 1600/2104 batches | lr 0.010 | ms/batch 7.23 | loss 0.12 |
| epoch 10 | 1800/ 2104 batches | lr 0.010 | ms/batch 7.09 | loss 0.14 |
| epoch 10 | 2000/ 2104 batches | lr 0.010 | ms/batch 7.09 | loss 0.13 |
______
| end of epoch 10 | time: 15.17s | valid loss 0.57 | valid acc 0.845 |
  -----
_____
| End of training | test loss 0.50 | test acc 0.850 |
______
learning rate: 10, dropout: 0.1, batch size: 64
| epoch 1 | 200/1052 batches | lr 10.000 | ms/batch 8.75 | loss 1.07 |
| epoch 1 | 400/1052 batches | lr 10.000 | ms/batch 7.21 | loss 1.02 |
epoch 1 | 600/1052 batches | lr 10.000 | ms/batch 7.51 | loss 1.03 |
| epoch 1 | 800/1052 batches | lr 10.000 | ms/batch 7.55 | loss 1.03 |
| epoch 1 | 1000/1052 batches | lr 10.000 | ms/batch 7.64 | loss 1.03 |
 _____
end of epoch 1 | time: 8.17s | valid loss 1.17 | valid acc 0.540 |
-----
| epoch 2 | 200/1052 batches | lr 10.000 | ms/batch 7.66 | loss 1.05 |
epoch 2 | 400/1052 batches | lr 10.000 | ms/batch 7.64 | loss 1.03 |
| epoch 2 | 600/1052 batches | lr 10.000 | ms/batch 7.60 | loss 1.04 |
| epoch 2 | 800/1052 batches | lr 10.000 | ms/batch 7.54 | loss 1.03 |
| epoch 2 | 1000/1052 batches | lr 10.000 | ms/batch 7.58 | loss 1.03 |
      .-----
end of epoch 2 | time: 8.05s | valid loss 1.29 | valid acc 0.540 |
-----
| epoch 3 | 200/1052 batches | lr 2.500 | ms/batch 7.61 | loss 0.71 |
| epoch 3 | 400/1052 batches | lr 2.500 | ms/batch 7.61 | loss 0.70 |
| epoch 3 | 600/1052 batches | lr 2.500 | ms/batch 7.56 | loss 0.69 |
| epoch 3 | 800/1052 batches | lr 2.500 | ms/batch 7.58 | loss 0.69 |
| epoch 3 | 1000/1052 batches | lr 2.500 | ms/batch 7.55 | loss 0.70 |
_____
end of epoch 3 | time: 8.04s | valid loss 0.73 | valid acc 0.540 |
______
| epoch 4 | 200/1052 batches | lr 2.500 | ms/batch 7.69 | loss 0.70 |
| epoch 4 | 400/1052 batches | lr 2.500 | ms/batch 7.53 | loss 0.70 |
```

```
| epoch 4 | 600/1052 batches | lr 2.500 | ms/batch 7.55 | loss 0.69 |
| epoch 4 | 800/1052 batches | lr 2.500 | ms/batch 7.52 | loss 0.68 |
| epoch 4 | 1000/1052 batches | lr 2.500 | ms/batch 7.53 | loss 0.63 |
_____
end of epoch 4 | time: 8.01s | valid loss 0.83 | valid acc 0.650 |
______
| epoch 5 | 200/1052 batches | lr 0.625 | ms/batch 6.44 | loss 0.47 |
| epoch 5 | 400/1052 batches | lr 0.625 | ms/batch 6.66 | loss 0.44 |
epoch 5 | 600/1052 batches | lr 0.625 | ms/batch 7.48 | loss 0.41 |
| epoch 5 | 800/1052 batches | lr 0.625 | ms/batch 7.41 | loss 0.38 |
| epoch 5 | 1000/1052 batches | lr 0.625 | ms/batch 7.48 | loss 0.34 |
_____
| end of epoch 5 | time: 7.56s | valid loss 0.56 | valid acc 0.788 |
_____
| epoch 6 | 200/1052 batches | lr 0.625 | ms/batch 7.55 | loss 0.35 |
| epoch 6 | 400/1052 batches | lr 0.625 | ms/batch 7.53 | loss 0.35 |
epoch 6 | 600/1052 batches | lr 0.625 | ms/batch 7.51 | loss 0.33 |
| epoch 6 | 800/1052 batches | lr 0.625 | ms/batch 7.56 | loss 0.31 |
| epoch 6 | 1000/1052 batches | lr 0.625 | ms/batch 6.53 | loss 0.29 |
_____
| end of epoch 6 | time: 7.79s | valid loss 0.56 | valid acc 0.798 |
| epoch 7 | 200/1052 batches | lr 0.156 | ms/batch 7.44 | loss 0.28 |
epoch 7 | 400/1052 batches | lr 0.156 | ms/batch 5.87 | loss 0.28 |
epoch 7 | 600/1052 batches | lr 0.156 | ms/batch 6.97 | loss 0.26 |
| epoch 7 | 800/1052 batches | lr 0.156 | ms/batch 7.50 | loss 0.25 |
| epoch 7 | 1000/1052 batches | lr 0.156 | ms/batch 7.58 | loss 0.23 |
 ______
| end of epoch 7 | time: 7.53s | valid loss 0.59 | valid acc 0.819 |
______
| epoch 8 | 200/1052 batches | lr 0.039 | ms/batch 7.60 | loss 0.26 |
| epoch 8 | 400/1052 batches | lr 0.039 | ms/batch 7.61 | loss 0.26 |
epoch 8 | 600/1052 batches | lr 0.039 | ms/batch 7.49 | loss 0.25 |
| epoch 8 | 800/1052 batches | lr 0.039 | ms/batch 7.56 | loss 0.23 |
| epoch 8 | 1000/1052 batches | lr 0.039 | ms/batch 7.62 | loss 0.22 |
------
end of epoch 8 | time: 8.03s | valid loss 0.59 | valid acc 0.812 |
    ______
| epoch 9 | 200/1052 batches | lr 0.010 | ms/batch 7.61 | loss 0.25 |
| epoch 9 | 400/1052 batches | lr 0.010 | ms/batch 7.66 | loss 0.25 |
| epoch 9 | 600/1052 batches | lr 0.010 | ms/batch 7.68 | loss 0.24 |
| epoch 9 | 800/1052 batches | lr 0.010 | ms/batch 7.58 | loss 0.22 |
| epoch 9 | 1000/1052 batches | lr 0.010 | ms/batch 7.62 | loss 0.21 |
_____
| end of epoch 9 | time: 8.09s | valid loss 0.59 | valid acc 0.812 |
______
| epoch 10 | 200/1052 batches | lr 0.002 | ms/batch 7.63 | loss 0.25 |
| epoch 10 | 400/1052 batches | lr 0.002 | ms/batch 7.30 | loss 0.25 |
| epoch 10 | 600/1052 batches | lr 0.002 | ms/batch 7.31 | loss 0.24 |
| epoch 10 | 800/1052 batches | lr 0.002 | ms/batch 7.31 | loss 0.22 |
| epoch 10 | 1000/1052 batches | lr 0.002 | ms/batch 7.44 | loss 0.21 |
```

```
| end of epoch 10 | time: 7.86s | valid loss 0.59 | valid acc 0.812 |
______
| End of training | test loss 0.53 | test acc 0.821 |
______
learning rate: 10, dropout: 0.2, batch size: 32
| epoch 1 | 200/2104 batches | lr 10.000 | ms/batch 8.23 | loss 1.05 |
epoch 1 | 400/2104 batches | lr 10.000 | ms/batch 7.06 | loss 1.03 |
epoch 1 | 600/2104 batches | lr 10.000 | ms/batch 7.07 | loss 1.01 |
epoch 1 | 800/2104 batches | lr 10.000 | ms/batch 7.23 | loss 1.02 |
epoch 1 | 1000/2104 batches | lr 10.000 | ms/batch 5.73 | loss 1.02 |
| epoch 1 | 1200/2104 batches | lr 10.000 | ms/batch 6.51 | loss 1.03 |
| epoch 1 | 1400/2104 batches | lr 10.000 | ms/batch 7.33 | loss 1.02 |
| epoch 1 | 1600/2104 batches | lr 10.000 | ms/batch 7.24 | loss 1.02 |
| epoch 1 | 1800/2104 batches | lr 10.000 | ms/batch 7.21 | loss 1.03 |
| epoch 1 | 2000/2104 batches | lr 10.000 | ms/batch 7.33 | loss 1.04 |
end of epoch 1 | time: 15.00s | valid loss 1.13 | valid acc 0.483 |
  ______
| epoch 2 | 200/2104 batches | lr 10.000 | ms/batch 5.76 | loss 1.02 |
| epoch 2 | 400/2104 batches | lr 10.000 | ms/batch 6.82 | loss 1.01 |
| epoch 2 | 600/2104 batches | lr 10.000 | ms/batch 7.29 | loss 1.02 |
epoch 2 | 800/2104 batches | lr 10.000 | ms/batch 7.27 | loss 1.02 |
| epoch 2 | 1000/2104 batches | lr 10.000 | ms/batch 7.22 | loss 1.02 |
epoch 2 | 1200/2104 batches | lr 10.000 | ms/batch 7.25 | loss 1.02 |
| epoch 2 | 1400/2104 batches | lr 10.000 | ms/batch 7.33 | loss 1.02 |
| epoch 2 | 1600/2104 batches | lr 10.000 | ms/batch 7.45 | loss 1.02 |
| epoch 2 | 1800/2104 batches | lr 10.000 | ms/batch 7.33 | loss 1.03 |
| epoch 2 | 2000/2104 batches | lr 10.000 | ms/batch 7.38 | loss 1.04 |
end of epoch 2 | time: 14.98s | valid loss 1.12 | valid acc 0.483 |
| epoch 3 | 200/2104 batches | lr 10.000 | ms/batch 7.08 | loss 1.01 |
epoch 3 | 400/2104 batches | lr 10.000 | ms/batch 7.11 | loss 1.03 |
| epoch 3 | 600/2104 batches | lr 10.000 | ms/batch 7.18 | loss 1.02 |
| epoch 3 | 800/2104 batches | lr 10.000 | ms/batch 7.22 | loss 1.02 |
| epoch 3 | 1000/2104 batches | lr 10.000 | ms/batch 7.20 | loss 1.02 |
epoch 3 | 1200/2104 batches | lr 10.000 | ms/batch 7.20 | loss 1.03 |
| epoch 3 | 1400/2104 batches | lr 10.000 | ms/batch 7.09 | loss 1.02 |
| epoch 3 | 1600/2104 batches | lr 10.000 | ms/batch 7.16 | loss 1.01 |
| epoch 3 | 1800/2104 batches | lr 10.000 | ms/batch 7.12 | loss 1.03 |
epoch 3 | 2000/2104 batches | lr 10.000 | ms/batch 7.15 | loss 1.04 |
end of epoch 3 | time: 15.11s | valid loss 1.09 | valid acc 0.483 |
```

| epoch 4 | 200/2104 batches | lr 10.000 | ms/batch 7.29 | loss 1.04 |

```
| epoch 4 | 400/2104 batches | lr 10.000 | ms/batch 7.25 | loss 1.02 |
epoch 4 | 600/2104 batches | lr 10.000 | ms/batch 7.19 | loss 1.03 |
| epoch 4 | 800/2104 batches | lr 10.000 | ms/batch 7.12 | loss 1.02 |
| epoch 4 | 1000/2104 batches | lr 10.000 | ms/batch 7.27 | loss 1.00 |
| epoch 4 | 1200/2104 batches | lr 10.000 | ms/batch 7.33 | loss 1.03 |
| epoch 4 | 1400/2104 batches | lr 10.000 | ms/batch 7.38 | loss 1.02 |
| epoch 4 | 1600/2104 batches | lr 10.000 | ms/batch 7.35 | loss 1.02 |
epoch 4 | 1800/2104 batches | lr 10.000 | ms/batch 7.35 | loss 1.03 |
epoch 4 | 2000/2104 batches | lr 10.000 | ms/batch 7.25 | loss 1.04 |
______
end of epoch 4 | time: 15.36s | valid loss 0.99 | valid acc 0.483 |
______
| epoch 5 | 200/2104 batches | lr 10.000 | ms/batch 7.17 | loss 1.01 |
| epoch 5 | 400/2104 batches | lr 10.000 | ms/batch 7.06 | loss 1.02 |
epoch 5 | 600/2104 batches | lr 10.000 | ms/batch 7.32 | loss 1.04 |
| epoch 5 | 800/2104 batches | lr 10.000 | ms/batch 7.35 | loss 1.02 |
| epoch 5 | 1000/2104 batches | lr 10.000 | ms/batch 7.47 | loss 1.02 |
| epoch 5 | 1200/2104 batches | lr 10.000 | ms/batch 7.41 | loss 1.02 |
| epoch 5 | 1400/2104 batches | lr 10.000 | ms/batch 7.29 | loss 1.02 |
| epoch 5 | 1600/2104 batches | lr 10.000 | ms/batch 7.33 | loss 1.01 |
| epoch 5 | 1800/2104 batches | lr 10.000 | ms/batch 7.32 | loss 1.04 |
| epoch 5 | 2000/2104 batches | lr 10.000 | ms/batch 7.37 | loss 1.05 |
_____
end of epoch 5 | time: 15.44s | valid loss 0.99 | valid acc 0.483 |
______
| epoch 6 | 200/2104 batches | lr 2.500 | ms/batch 6.70 | loss 0.71 |
epoch 6 | 400/2104 batches | lr 2.500 | ms/batch 7.27 | loss 0.70 |
| epoch 6 | 600/2104 batches | lr 2.500 | ms/batch 7.31 | loss 0.71 |
| epoch 6 | 800/2104 batches | lr 2.500 | ms/batch 7.10 | loss 0.70 |
epoch 6 | 1000/2104 batches | lr 2.500 | ms/batch 7.14 | loss 0.70 |
| epoch 6 | 1200/2104 batches | lr 2.500 | ms/batch 7.05 | loss 0.70 |
| epoch 6 | 1400/2104 batches | lr 2.500 | ms/batch 7.05 | loss 0.70 |
epoch 6 | 1600/2104 batches | lr 2.500 | ms/batch 7.08 | loss 0.70 |
| epoch 6 | 1800/2104 batches | lr 2.500 | ms/batch 7.07 | loss 0.68 |
| epoch 6 | 2000/2104 batches | lr 2.500 | ms/batch 7.04 | loss 0.63 |
______
end of epoch 6 | time: 14.96s | valid loss 0.67 | valid acc 0.683 |
    ______
| epoch 7 | 200/2104 batches | lr 2.500 | ms/batch 6.81 | loss 0.54 |
| epoch 7 | 400/2104 batches | lr 2.500 | ms/batch 7.35 | loss 0.49 |
epoch 7 | 600/2104 batches | lr 2.500 | ms/batch 7.33 | loss 0.48 |
| epoch 7 | 800/2104 batches | lr 2.500 | ms/batch 7.09 | loss 0.45 |
epoch 7 | 1000/2104 batches | lr 2.500 | ms/batch 7.19 | loss 0.43 |
| epoch 7 | 1200/2104 batches | lr 2.500 | ms/batch 7.41 | loss 0.41 |
| epoch 7 | 1400/2104 batches | lr 2.500 | ms/batch 7.28 | loss 0.38 |
| epoch 7 | 1600/2104 batches | lr 2.500 | ms/batch 7.33 | loss 0.36 |
| epoch 7 | 1800/2104 batches | lr 2.500 | ms/batch 7.33 | loss 0.35 |
| epoch 7 | 2000/2104 batches | lr 2.500 | ms/batch 7.33 | loss 0.32 |
______
end of epoch 7 | time: 15.30s | valid loss 0.67 | valid acc 0.810 |
```

```
| epoch 8 | 400/2104 batches | lr 0.625 | ms/batch 7.13 | loss 0.27 |
| epoch 8 | 600/2104 batches | lr 0.625 | ms/batch 7.35 | loss 0.27 |
| epoch 8 | 800/2104 batches | lr 0.625 | ms/batch 7.12 | loss 0.25 |
| epoch 8 | 1000/2104 batches | lr 0.625 | ms/batch 7.03 | loss 0.24 |
epoch 8 | 1200/2104 batches | lr 0.625 | ms/batch 7.13 | loss 0.25 |
| epoch 8 | 1400/2104 batches | lr 0.625 | ms/batch 7.23 | loss 0.22 |
| epoch 8 | 1600/2104 batches | lr 0.625 | ms/batch 7.36 | loss 0.21 |
| epoch 8 | 1800/2104 batches | lr 0.625 | ms/batch 7.34 | loss 0.21 |
| epoch 8 | 2000/2104 batches | lr 0.625 | ms/batch 7.28 | loss 0.19 |
        ------
end of epoch 8 | time: 15.26s | valid loss 0.65 | valid acc 0.805 |
| epoch 9 | 200/2104 batches | lr 0.625 | ms/batch 6.68 | loss 0.25 |
| epoch 9 | 400/2104 batches | lr 0.625 | ms/batch 7.34 | loss 0.23 |
| epoch 9 | 600/2104 batches | lr 0.625 | ms/batch 7.32 | loss 0.22 |
| epoch 9 | 800/2104 batches | lr 0.625 | ms/batch 6.71 | loss 0.22 |
epoch 9 | 1000/2104 batches | lr 0.625 | ms/batch 7.19 | loss 0.20 |
| epoch 9 | 1200/2104 batches | lr 0.625 | ms/batch 7.11 | loss 0.22 |
| epoch 9 | 1400/2104 batches | lr 0.625 | ms/batch 7.33 | loss 0.19 |
| epoch 9 | 1600/2104 batches | lr 0.625 | ms/batch 7.29 | loss 0.19 |
| epoch 9 | 1800/2104 batches | lr 0.625 | ms/batch 7.13 | loss 0.19 |
| epoch 9 | 2000/2104 batches | lr 0.625 | ms/batch 7.21 | loss 0.17 |
       -----
end of epoch 9 | time: 15.07s | valid loss 0.61 | valid acc 0.821 |
_____
| epoch 10 | 200/2104 batches | lr 0.625 | ms/batch 7.26 | loss 0.22 |
| epoch 10 | 400/2104 batches | lr 0.625 | ms/batch 7.18 | loss 0.20 |
| epoch 10 | 600/2104 batches | lr 0.625 | ms/batch 7.17 | loss 0.20 |
epoch 10 | 800/2104 batches | lr 0.625 | ms/batch 7.19 | loss 0.20 |
| epoch 10 | 1000/2104 batches | lr 0.625 | ms/batch 7.15 | loss 0.18 |
| epoch 10 | 1200/ 2104 batches | lr 0.625 | ms/batch 7.16 | loss 0.20 |
epoch 10 | 1400/2104 batches | lr 0.625 | ms/batch 7.22 | loss 0.17 |
| epoch 10 | 1600/2104 batches | lr 0.625 | ms/batch 7.22 | loss 0.17 |
epoch 10 | 1800/2104 batches | lr 0.625 | ms/batch 7.31 | loss 0.18 |
| epoch 10 | 2000/2104 batches | lr 0.625 | ms/batch 7.31 | loss 0.17 |
| end of epoch 10 | time: 15.25s | valid loss 0.58 | valid acc 0.826 |
  | End of training | test loss 0.50 | test acc 0.819 |
______
learning_rate: 10, dropout: 0.2, batch_size: 64
-----
| epoch 1 | 200/1052 batches | lr 10.000 | ms/batch 8.82 | loss 1.06 |
| epoch 1 | 400/1052 batches | lr 10.000 | ms/batch 7.40 | loss 1.02 |
| epoch 1 | 600/1052 batches | lr 10.000 | ms/batch 7.40 | loss 1.04 |
| epoch 1 | 800/1052 batches | lr 10.000 | ms/batch 7.17 | loss 1.03 |
```

epoch 8 | 200/2104 batches | lr 0.625 | ms/batch 7.16 | loss 0.29 |

```
| epoch 1 | 1000/1052 batches | lr 10.000 | ms/batch 7.28 | loss 1.03 |
      ______
end of epoch 1 | time: 8.05s | valid loss 1.18 | valid acc 0.540 |
_____
epoch 2 | 200/1052 batches | lr 10.000 | ms/batch 7.45 | loss 1.05 |
| epoch 2 | 400/1052 batches | lr 10.000 | ms/batch 7.24 | loss 1.03 |
| epoch 2 | 600/1052 batches | lr 10.000 | ms/batch 7.23 | loss 1.04 |
| epoch 2 | 800/1052 batches | lr 10.000 | ms/batch 7.23 | loss 1.03 |
| epoch 2 | 1000/1052 batches | lr 10.000 | ms/batch 7.35 | loss 1.03 |
______
end of epoch 2 | time: 7.73s | valid loss 1.24 | valid acc 0.540 |
______
| epoch 3 | 200/1052 batches | lr 2.500 | ms/batch 7.36 | loss 0.71 |
| epoch 3 | 400/1052 batches | lr 2.500 | ms/batch 7.52 | loss 0.70 |
| epoch 3 | 600/1052 batches | lr 2.500 | ms/batch 7.54 | loss 0.69 |
| epoch 3 | 800/1052 batches | lr 2.500 | ms/batch 7.41 | loss 0.69 |
| epoch 3 | 1000/1052 batches | lr 2.500 | ms/batch 7.46 | loss 0.70 |
-----
end of epoch 3 | time: 7.90s | valid loss 0.73 | valid acc 0.540 |
_____
| epoch 4 | 200/1052 batches | lr 2.500 | ms/batch 7.49 | loss 0.70 |
| epoch 4 | 400/1052 batches | lr 2.500 | ms/batch 7.57 | loss 0.70 |
| epoch 4 | 600/1052 batches | lr 2.500 | ms/batch 7.51 | loss 0.69 |
| epoch 4 | 800/1052 batches | lr 2.500 | ms/batch 7.50 | loss 0.68 |
| epoch 4 | 1000/1052 batches | lr 2.500 | ms/batch 6.81 | loss 0.62 |
_____
end of epoch 4 | time: 7.78s | valid loss 0.63 | valid acc 0.693 |
_____
| epoch 5 | 200/1052 batches | lr 2.500 | ms/batch 7.25 | loss 0.53 |
epoch 5 | 400/1052 batches | lr 2.500 | ms/batch 7.40 | loss 0.49 |
| epoch 5 | 600/1052 batches | lr 2.500 | ms/batch 7.54 | loss 0.44 |
| epoch 5 | 800/1052 batches | lr 2.500 | ms/batch 7.60 | loss 0.40 |
| epoch 5 | 1000/1052 batches | lr 2.500 | ms/batch 7.43 | loss 0.38 |
 _____
end of epoch 5 | time: 7.87s | valid loss 0.62 | valid acc 0.790 |
-----
| epoch 6 | 200/1052 batches | lr 2.500 | ms/batch 7.74 | loss 0.35 |
| epoch 6 | 400/1052 batches | lr 2.500 | ms/batch 7.42 | loss 0.34 |
| epoch 6 | 600/1052 batches | lr 2.500 | ms/batch 7.44 | loss 0.31 |
| epoch 6 | 800/1052 batches | lr 2.500 | ms/batch 7.57 | loss 0.29 |
epoch 6 | 1000/1052 batches | lr 2.500 | ms/batch 7.47 | loss 0.28 |
end of epoch 6 | time: 8.00s | valid loss 0.58 | valid acc 0.810 |
-----
| epoch 7 | 200/1052 batches | lr 2.500 | ms/batch 7.42 | loss 0.27 |
| epoch 7 | 400/1052 batches | lr 2.500 | ms/batch 7.59 | loss 0.26 |
| epoch 7 | 600/1052 batches | lr 2.500 | ms/batch 7.43 | loss 0.25 |
| epoch 7 | 800/1052 batches | lr 2.500 | ms/batch 7.38 | loss 0.22 |
epoch 7 | 1000/1052 batches | lr 2.500 | ms/batch 7.23 | loss 0.23 |
-----
end of epoch 7 | time: 7.85s | valid loss 0.57 | valid acc 0.831 |
```

```
| epoch 8 | 200/1052 batches | lr 2.500 | ms/batch 7.29 | loss 0.23 |
| epoch 8 | 400/1052 batches | lr 2.500 | ms/batch 7.28 | loss 0.21 |
         600/ 1052 batches | lr 2.500 | ms/batch 7.24 | loss 0.20 |
| epoch 8 | 800/1052 batches | lr 2.500 | ms/batch 7.29 | loss 0.19 |
| epoch 8 | 1000/1052 batches | lr 2.500 | ms/batch 7.24 | loss 0.19 |
______
end of epoch 8 | time: 7.71s | valid loss 0.59 | valid acc 0.843 |
______
| epoch 9 | 200/1052 batches | lr 0.625 | ms/batch 7.33 | loss 0.18 |
| epoch 9 | 400/1052 batches | lr 0.625 | ms/batch 7.27 | loss 0.16 |
| epoch 9 | 600/1052 batches | lr 0.625 | ms/batch 7.34 | loss 0.15 |
| epoch 9 | 800/1052 batches | lr 0.625 | ms/batch 7.32 | loss 0.12 |
| epoch 9 | 1000/1052 batches | lr 0.625 | ms/batch 7.39 | loss 0.13 |
_____
| end of epoch 9 | time: 7.78s | valid loss 0.61 | valid acc 0.845 |
_____
| epoch 10 | 200/1052 batches | lr 0.156 | ms/batch 7.49 | loss 0.15 |
| epoch 10 | 400/1052 batches | lr 0.156 | ms/batch 7.50 | loss 0.14 |
| epoch 10 | 600/1052 batches | lr 0.156 | ms/batch 7.57 | loss 0.13 |
| epoch 10 | 800/1052 batches | lr 0.156 | ms/batch 7.61 | loss 0.10 |
| epoch 10 | 1000/1052 batches | lr 0.156 | ms/batch 7.53 | loss 0.10 |
_____
end of epoch 10 | time: 7.97s | valid loss 0.65 | valid acc 0.850 |
______
| End of training | test loss 0.51 | test acc 0.845 |
______
```

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