

## First run:

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=====
=====
                                Opts
-----
                                cuda: 0
                                nepochs: 100
                                checkpoint_dir: checkpoints
                                learning_rate: 0.005
                                lr_decay: 0.99
                                batch_size: 64
                                hidden_size: 20
                                decoder_type: transformer
                                num_transformer_layers: 3
=====
=====
=====
=====
                                Data Stats
-----
('penury', 'enurypay')
('ca', 'acay')
('shrubberies', 'ubberiesshray')
('danger', 'angerday')
('sobs', 'obssay')
Num unique word pairs: 6387
Vocabulary: dict_keys(['-', 'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', 's', 't', 'u', 'v',
'w', 'x', 'y', 'z', 'SOS', 'EOS'])
Vocab size: 29
=====
=====
Epoch:  1 | Train loss: 2.011 | Val loss: 1.849 | Gen: itay-iday-itay-iday- away
ontingay-otay-otay-o inssay-inssssssay-ay ongay-ongay-ongngay-
Epoch:  2 | Train loss: 1.390 | Val loss: 1.632 | Gen: ectyheway airaray-aaaaaaaaaaaaa
ongtingngtingtingcay isay ororay-oray
Epoch:  3 | Train loss: 1.084 | Val loss: 1.392 | Gen: eatheway airay-ay otingcongcongcongsin
isway ororay-orgway
Epoch:  4 | Train loss: 0.897 | Val loss: 1.439 | Gen: ethetway-eheway airwayrway
onfingtinengcay-indc isway-is orclingngngngngngngw
Epoch:  5 | Train loss: 0.747 | Val loss: 1.006 | Gen: ehthay airayrairayraaaaaaaa
onviongca-y-iongtiong isisway orrrlingbay-ing
Epoch:  6 | Train loss: 0.624 | Val loss: 1.145 | Gen: eheheway airway onfionfionfionfionfi isway
orrrlibay
```

Epoch: 7 | Train loss: 0.550 | Val loss: 0.808 | Gen: ethetray airay ondioniongca-union isway  
ortway-ingng

Epoch: 8 | Train loss: 0.418 | Val loss: 0.931 | Gen: ethayetatatay airway ondiongnay-ay isway  
orkingngngngngngngngng

Epoch: 9 | Train loss: 0.347 | Val loss: 0.665 | Gen: ethay airway ondingcay-ay-angscay isway  
orkay-ingsway

Epoch: 10 | Train loss: 0.299 | Val loss: 0.999 | Gen: ethay airway ondinday isway orlay-ingway

Epoch: 11 | Train loss: 0.381 | Val loss: 0.787 | Gen: ehay airway oay-ingcay isway orkay

Epoch: 12 | Train loss: 0.352 | Val loss: 1.204 | Gen: ehay airway ooondiongca-ioonion isay  
orkorking-ingway

Epoch: 13 | Train loss: 0.380 | Val loss: 0.603 | Gen: ethay away onditinday isway orkway

Epoch: 14 | Train loss: 0.297 | Val loss: 0.946 | Gen: ethay ayay onditiongcay isway orkingway

Epoch: 15 | Train loss: 0.339 | Val loss: 0.511 | Gen: ethay airway onditiongway isway orkeray

Epoch: 16 | Train loss: 0.238 | Val loss: 0.545 | Gen: ethay airway ondingcay isway orkway

Epoch: 17 | Train loss: 0.203 | Val loss: 0.576 | Gen: ethay away onditiongcay isway  
orkerkingway

Epoch: 18 | Train loss: 0.168 | Val loss: 0.320 | Gen: ethay airway onditiongcay isway  
orkingway

Epoch: 19 | Train loss: 0.122 | Val loss: 0.448 | Gen: ethay airway ondititndiongway isway  
orkingway

Epoch: 20 | Train loss: 0.129 | Val loss: 0.271 | Gen: ethay airway onditiongcay isway  
orkingway

Epoch: 21 | Train loss: 0.112 | Val loss: 0.301 | Gen: ethay airway onditiongcay isway orkingway

Epoch: 22 | Train loss: 0.113 | Val loss: 0.417 | Gen: ethay airway onditionqungsay isway  
orkingway

Epoch: 23 | Train loss: 0.103 | Val loss: 0.381 | Gen: ethay airway onditiongnay isway  
orkingway

Epoch: 24 | Train loss: 0.126 | Val loss: 0.485 | Gen: ethay awairway ondiongclay isway  
orlingway

Epoch: 25 | Train loss: 0.162 | Val loss: 0.580 | Gen: ethay airway ondongccain isway  
orkingway

Epoch: 26 | Train loss: 0.145 | Val loss: 0.321 | Gen: ethay airway onditionay-itingsay isway  
orkingway

Epoch: 27 | Train loss: 0.110 | Val loss: 0.357 | Gen: ethay airway onditiongcay isway orkingway

Epoch: 28 | Train loss: 0.091 | Val loss: 0.403 | Gen: ethay airway onditiongcay isway  
orkingway

Epoch: 29 | Train loss: 0.073 | Val loss: 0.278 | Gen: ethay airway onditioniningcay isway  
orkingway

Epoch: 30 | Train loss: 0.085 | Val loss: 0.462 | Gen: ethay airway onditiongtay isway orkingway

Epoch: 31 | Train loss: 0.158 | Val loss: 0.494 | Gen: ethay airway ondiongca isway orkingway

Epoch: 32 | Train loss: 0.112 | Val loss: 0.470 | Gen: ethay airway ondititiningcay isway  
orkingway

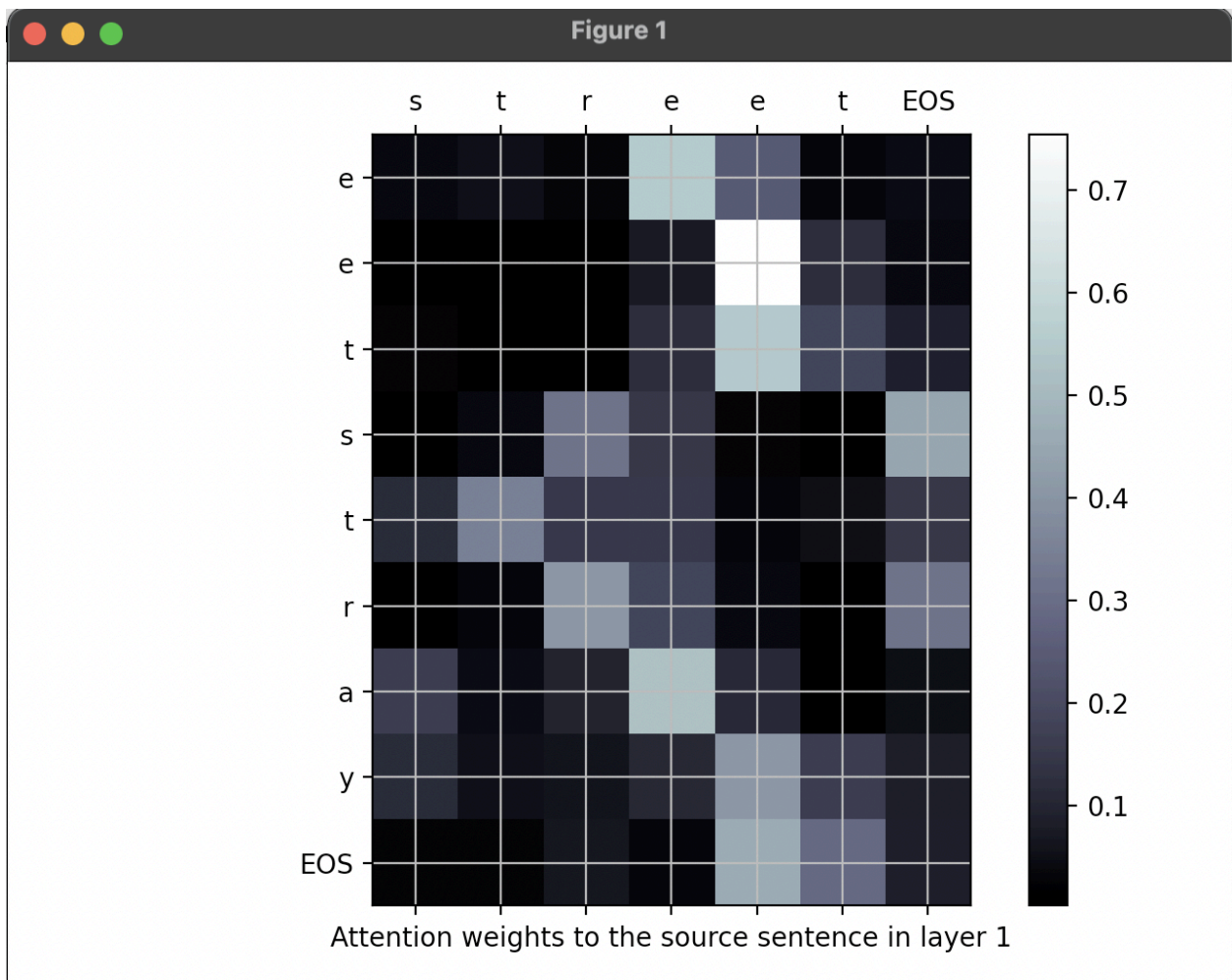
Epoch: 33 | Train loss: 0.141 | Val loss: 0.535 | Gen: ethay airway onditiondcay-ingcay isway  
orkingway

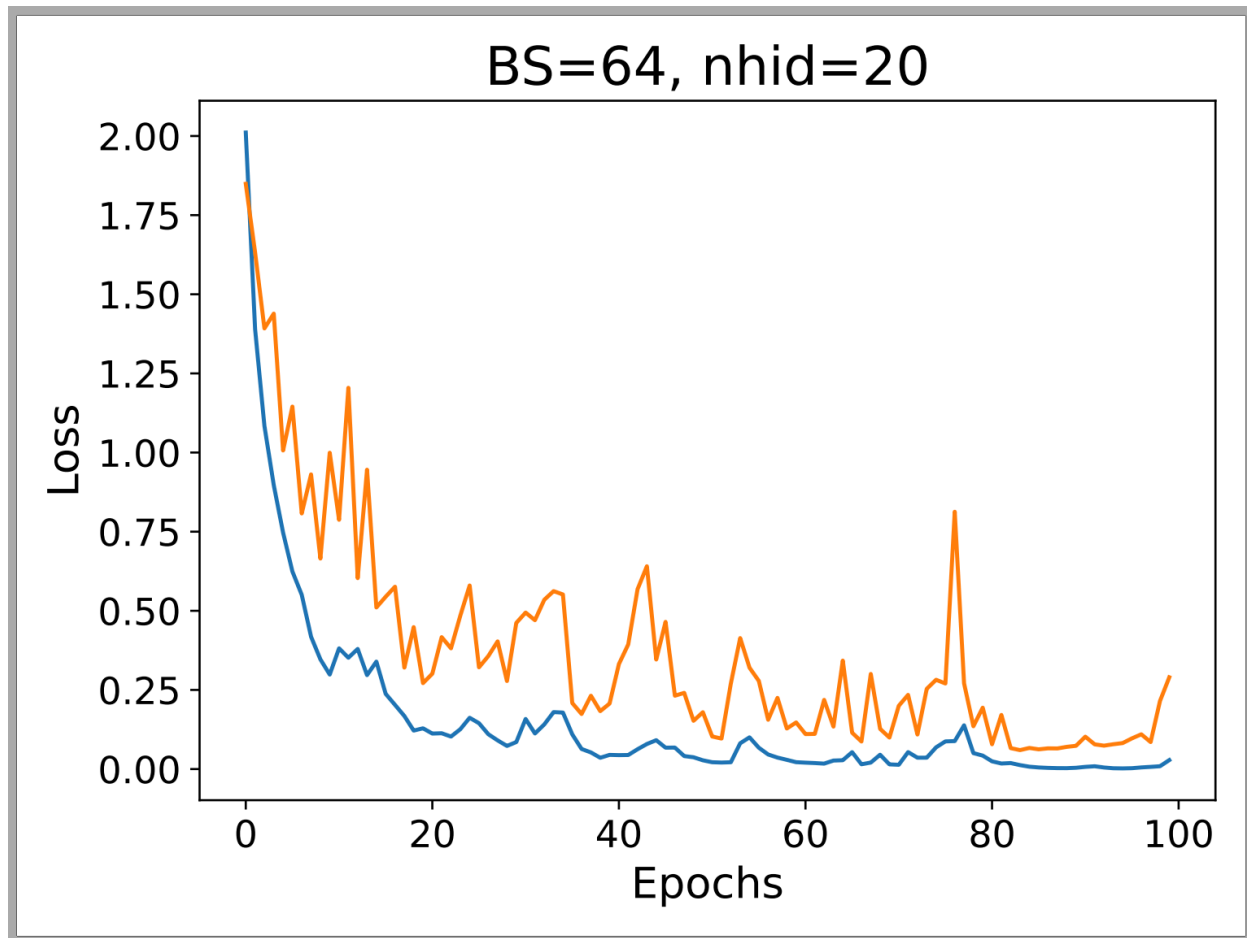
Epoch: 34 | Train loss: 0.180 | Val loss: 0.562 | Gen: ehay away onditiongtinay isway orkingway  
Epoch: 35 | Train loss: 0.178 | Val loss: 0.552 | Gen: ethay airway onditiongcay isway  
orkingway  
Epoch: 36 | Train loss: 0.110 | Val loss: 0.208 | Gen: ethay airway onditiongcay isway orkingway  
Epoch: 37 | Train loss: 0.063 | Val loss: 0.174 | Gen: ethay airway onditiongcay isway  
orkingway  
Epoch: 38 | Train loss: 0.053 | Val loss: 0.232 | Gen: ethay airway onditiongcay isway  
orkingway  
Epoch: 39 | Train loss: 0.036 | Val loss: 0.183 | Gen: ethay airway onditioniningcay isway  
orkingway  
Epoch: 40 | Train loss: 0.045 | Val loss: 0.207 | Gen: ethay airway onditiongcay isway  
orkingway  
Epoch: 41 | Train loss: 0.044 | Val loss: 0.332 | Gen: ethay airway onditionitcay isway orkingway  
Epoch: 42 | Train loss: 0.044 | Val loss: 0.394 | Gen: ethay airway ondititititcay isway  
orkingway  
Epoch: 43 | Train loss: 0.063 | Val loss: 0.568 | Gen: ethay airway onditundiongca isway  
orkingway  
Epoch: 44 | Train loss: 0.079 | Val loss: 0.641 | Gen: ethay airway onditundiongca isway  
orkingway  
Epoch: 45 | Train loss: 0.091 | Val loss: 0.346 | Gen: ethay airway onditionaingcay isway  
orkingway  
Epoch: 46 | Train loss: 0.068 | Val loss: 0.465 | Gen: ethay airway onditionanioningca isway  
orkingway  
Epoch: 47 | Train loss: 0.068 | Val loss: 0.232 | Gen: ethay airway onditiningcay isway  
orkingway  
Epoch: 48 | Train loss: 0.041 | Val loss: 0.241 | Gen: ehay airway onditioningcay isway  
orkingway  
Epoch: 49 | Train loss: 0.037 | Val loss: 0.152 | Gen: ethay airway onditioniningcay isway  
orkingway  
Epoch: 50 | Train loss: 0.028 | Val loss: 0.180 | Gen: ethay airway onditionioninibay isway  
orkingway  
Epoch: 51 | Train loss: 0.022 | Val loss: 0.103 | Gen: ethay airway onditioningcay isway  
orkingway  
Epoch: 52 | Train loss: 0.021 | Val loss: 0.096 | Gen: ethay airway onditioningcay isway  
orkingway  
Epoch: 53 | Train loss: 0.022 | Val loss: 0.270 | Gen: ethay aiirway onditioniningcay isway  
irkingway  
Epoch: 54 | Train loss: 0.081 | Val loss: 0.414 | Gen: ethay airway onditiningcay isway  
orkingway  
Epoch: 55 | Train loss: 0.100 | Val loss: 0.320 | Gen: ethay airway ondititingcay isway orkingway  
Epoch: 56 | Train loss: 0.067 | Val loss: 0.278 | Gen: ethay airway onditioniningcay isway  
orkingway  
Epoch: 57 | Train loss: 0.046 | Val loss: 0.156 | Gen: ethay airway onditiongcay isway  
orkingway

Epoch: 58 | Train loss: 0.036 | Val loss: 0.225 | Gen: ethay airway onditionongcay isway orkingway  
Epoch: 59 | Train loss: 0.029 | Val loss: 0.128 | Gen: ethay airway onditioningcay isway orangway  
Epoch: 60 | Train loss: 0.022 | Val loss: 0.147 | Gen: ethay airway onditionongcay isway orkingway  
Epoch: 61 | Train loss: 0.020 | Val loss: 0.111 | Gen: ethay airway onditioningcay isway orkingway  
Epoch: 62 | Train loss: 0.019 | Val loss: 0.111 | Gen: ethay airway onditionongcay isway orkingway  
Epoch: 63 | Train loss: 0.017 | Val loss: 0.219 | Gen: ethay airway ondititcay isway orkingway  
Epoch: 64 | Train loss: 0.027 | Val loss: 0.134 | Gen: ethay airway onditionongcay isway orkingway  
Epoch: 65 | Train loss: 0.028 | Val loss: 0.343 | Gen: ethay airway ouditionongcay isway orkingway  
Epoch: 66 | Train loss: 0.053 | Val loss: 0.115 | Gen: ethay airway onditionongcay isway orkingway  
Epoch: 67 | Train loss: 0.015 | Val loss: 0.087 | Gen: ethay airway onditionongcay isway orkingway  
Epoch: 68 | Train loss: 0.020 | Val loss: 0.300 | Gen: ethay airway onditionongcay isway orkingway  
Epoch: 69 | Train loss: 0.045 | Val loss: 0.127 | Gen: ehay airway onditionongcay isway orkingway  
Epoch: 70 | Train loss: 0.015 | Val loss: 0.100 | Gen: ethay airway onditioningcay isway orkingway  
Epoch: 71 | Train loss: 0.013 | Val loss: 0.200 | Gen: ethay airway onditioningcay isway orkingway  
Epoch: 72 | Train loss: 0.054 | Val loss: 0.234 | Gen: ethay airway onditionongcay isway orkingway  
Epoch: 73 | Train loss: 0.036 | Val loss: 0.109 | Gen: ethay airway onditionionininigcay isway orkingway  
Epoch: 74 | Train loss: 0.036 | Val loss: 0.253 | Gen: ethay airway onditioningcay isway orkingway  
Epoch: 75 | Train loss: 0.069 | Val loss: 0.282 | Gen: ethay airway onditionongcay isway orkingway  
Epoch: 76 | Train loss: 0.087 | Val loss: 0.270 | Gen: ethay airway onditionongcay isway orkingway  
Epoch: 77 | Train loss: 0.088 | Val loss: 0.813 | Gen: ethay airway ondiondiongca isway ororkingway  
Epoch: 78 | Train loss: 0.138 | Val loss: 0.271 | Gen: ewhay airway onditionongcay isway orkingway  
Epoch: 79 | Train loss: 0.050 | Val loss: 0.135 | Gen: ethay airway onditionongcay isway orkingway  
Epoch: 80 | Train loss: 0.043 | Val loss: 0.194 | Gen: ethay airway onditionongcay isway orkingway  
Epoch: 81 | Train loss: 0.024 | Val loss: 0.078 | Gen: ethay airway onditionongcay isway orkingway

Epoch: 82 | Train loss: 0.018 | Val loss: 0.171 | Gen: ethay airway onditiningcay isway orkingway  
Epoch: 83 | Train loss: 0.019 | Val loss: 0.066 | Gen: ethay airway onditioningcay isway orkingway  
Epoch: 84 | Train loss: 0.012 | Val loss: 0.060 | Gen: ethay airway onditiongca isway orkingway  
Epoch: 85 | Train loss: 0.007 | Val loss: 0.067 | Gen: ethay airway onditiongca isway orkingway  
Epoch: 86 | Train loss: 0.005 | Val loss: 0.062 | Gen: ethay airway onditioningcay isway orkingway  
Epoch: 87 | Train loss: 0.004 | Val loss: 0.065 | Gen: ethay airway onditioningcay isway orkingway  
Epoch: 88 | Train loss: 0.003 | Val loss: 0.065 | Gen: ethay airway onditioningcay isway orkingway  
Epoch: 89 | Train loss: 0.003 | Val loss: 0.070 | Gen: ethay airway onditioningcay isway orkingway  
Epoch: 90 | Train loss: 0.004 | Val loss: 0.073 | Gen: ethay airway onditioningcay isway orkingway  
Epoch: 91 | Train loss: 0.007 | Val loss: 0.102 | Gen: ethay airway onditioningcay isway orkingway  
Epoch: 92 | Train loss: 0.009 | Val loss: 0.078 | Gen: ethay airway onditioningcay isway orkingway  
Epoch: 93 | Train loss: 0.005 | Val loss: 0.074 | Gen: ethay airway onditioningcay isway orkingway  
Epoch: 94 | Train loss: 0.003 | Val loss: 0.078 | Gen: ethay airway onditioningcay isway orkingway  
Epoch: 95 | Train loss: 0.002 | Val loss: 0.082 | Gen: ethay airway onditioningcay isway orkingway  
Epoch: 96 | Train loss: 0.003 | Val loss: 0.097 | Gen: ethay airway onditioningcay isway orkingway  
Epoch: 97 | Train loss: 0.005 | Val loss: 0.110 | Gen: ethay airway onditioningcay isway orkingway  
Epoch: 98 | Train loss: 0.007 | Val loss: 0.085 | Gen: ethay airway onditioniongca isway orkingway  
Epoch: 99 | Train loss: 0.009 | Val loss: 0.215 | Gen: ethay airway onditiongca isway orkingway  
Epoch: 100 | Train loss: 0.028 | Val loss: 0.290 | Gen: ethay airway onditiongca isway orkingway  
source: the air conditioning is working  
translated: ethay airway onditiongca isway orkingway

Failure - wrong translation for "conditioning" - was correct until the final 3 epochs, suggesting overfitting. It correctly translated the word "street" though.





**Second run:**

```
=====
=====
                                Opts
-----
        cuda: 0
        nepochs: 100
    checkpoint_dir: checkpoints
    learning_rate: 0.005
        lr_decay: 0.99
        batch_size: 64
        hidden_size: 20
        decoder_type: transformer
    num_transformer_layers: 3
=====
=====
=====
=====
```

[illegible]

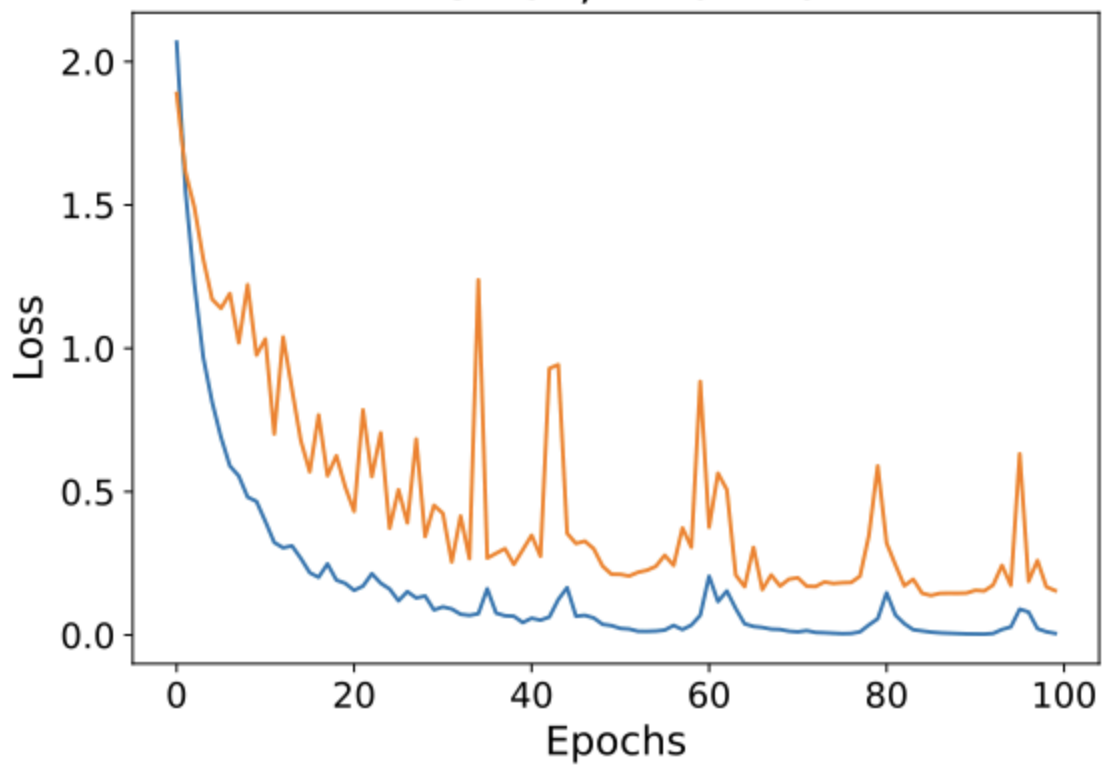


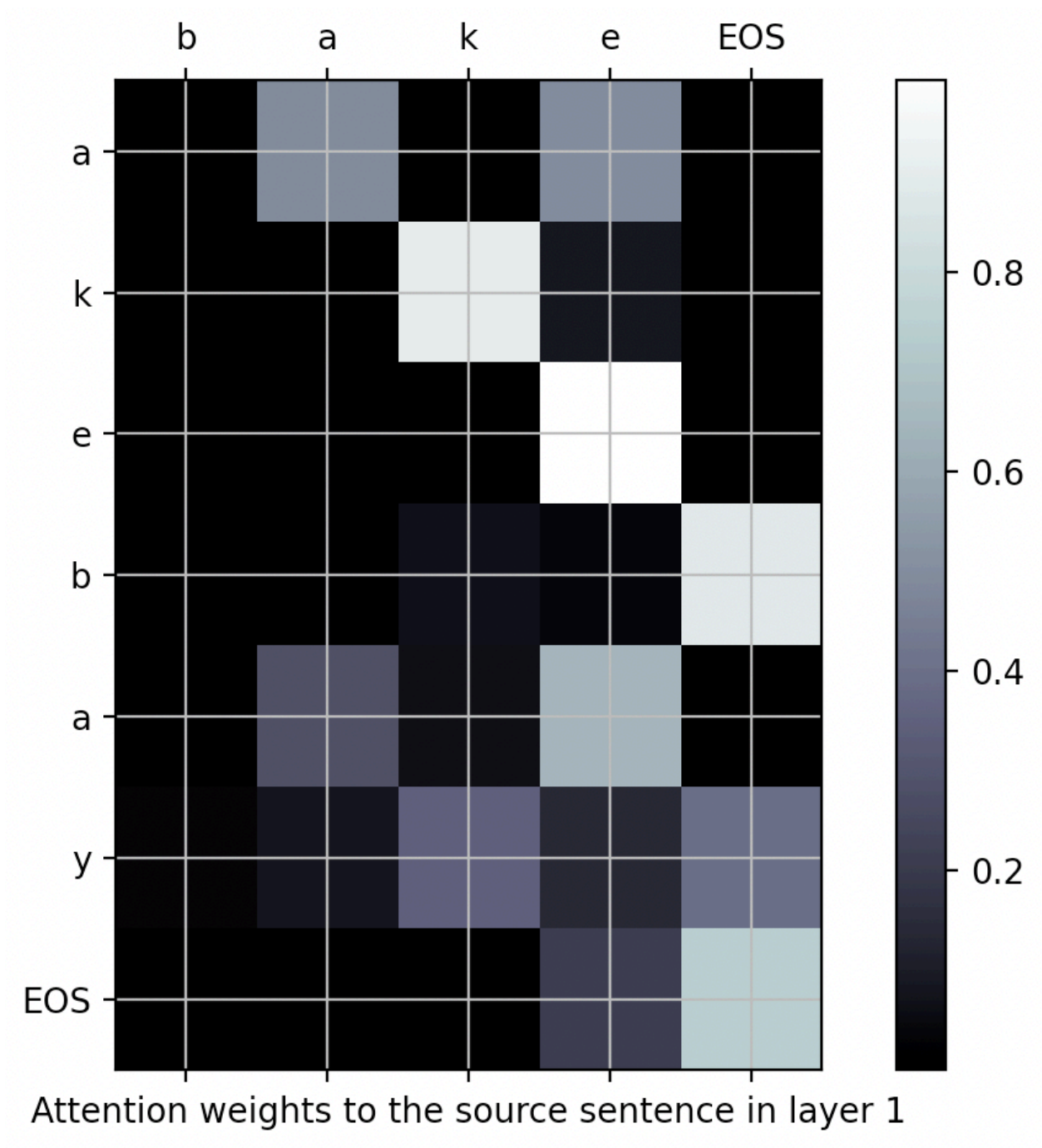
Epoch: 22 | Train loss: 0.171 | Val loss: 0.785 | Gen: ixnay onway ethayethay ealrayeay amemaumepay  
Epoch: 23 | Train loss: 0.214 | Val loss: 0.553 | Gen: ixnay onway ethay ealray amenay  
Epoch: 24 | Train loss: 0.181 | Val loss: 0.705 | Gen: ixnay onway eythay ealray namenay  
Epoch: 25 | Train loss: 0.161 | Val loss: 0.372 | Gen: ixnay onway ethay ealray amepay  
Epoch: 26 | Train loss: 0.119 | Val loss: 0.507 | Gen: ixnay onway ethay ealray amenay  
Epoch: 27 | Train loss: 0.151 | Val loss: 0.391 | Gen: ixnay onway ehay ealray amenay  
Epoch: 28 | Train loss: 0.129 | Val loss: 0.683 | Gen: ixnay onway ethay ealray amenay  
Epoch: 29 | Train loss: 0.136 | Val loss: 0.344 | Gen: ixnay onway ethay ealray ameway  
Epoch: 30 | Train loss: 0.088 | Val loss: 0.452 | Gen: ixnay onway ethay ealray ameway  
Epoch: 31 | Train loss: 0.098 | Val loss: 0.424 | Gen: ixnay onway ethay ealray amenay  
Epoch: 32 | Train loss: 0.091 | Val loss: 0.255 | Gen: ixnay onway ethay ealray ameway  
Epoch: 33 | Train loss: 0.073 | Val loss: 0.415 | Gen: ixnay onway ehay ealray amenay  
Epoch: 34 | Train loss: 0.069 | Val loss: 0.267 | Gen: ixnay onway ethay ealray amenay  
Epoch: 35 | Train loss: 0.074 | Val loss: 1.239 | Gen: zcnizay onway eay eaaawray mamenay  
Epoch: 36 | Train loss: 0.161 | Val loss: 0.268 | Gen: ixnay onway ethay ealray amenay  
Epoch: 37 | Train loss: 0.077 | Val loss: 0.285 | Gen: ixnay onway ethay ealray amenay  
Epoch: 38 | Train loss: 0.067 | Val loss: 0.301 | Gen: ixnay onway ethay ealray amenay  
Epoch: 39 | Train loss: 0.066 | Val loss: 0.246 | Gen: ixnay onway ethay ealray amenay  
Epoch: 40 | Train loss: 0.043 | Val loss: 0.297 | Gen: ixnay onway ethay ealray amenay  
Epoch: 41 | Train loss: 0.059 | Val loss: 0.348 | Gen: ixnay onway ethay ealray amenay  
Epoch: 42 | Train loss: 0.052 | Val loss: 0.275 | Gen: ixnay onway ethay ealray amenay  
Epoch: 43 | Train loss: 0.063 | Val loss: 0.930 | Gen: ixnay onway ehay ealray amenay  
Epoch: 44 | Train loss: 0.124 | Val loss: 0.943 | Gen: ixnay nway ethay eallllway amemennay  
Epoch: 45 | Train loss: 0.165 | Val loss: 0.355 | Gen: ixnay onway ehay ealray amenay  
Epoch: 46 | Train loss: 0.066 | Val loss: 0.319 | Gen: ixnay onway ehay ealray amenay  
Epoch: 47 | Train loss: 0.069 | Val loss: 0.328 | Gen: ixnay onway ehay ealray amenay  
Epoch: 48 | Train loss: 0.060 | Val loss: 0.301 | Gen: ixnay onway ethay ealray amenay  
Epoch: 49 | Train loss: 0.037 | Val loss: 0.240 | Gen: ixnay onway ehay ealray amenay  
Epoch: 50 | Train loss: 0.033 | Val loss: 0.212 | Gen: ixnay onway ethay ealray amenay  
Epoch: 51 | Train loss: 0.023 | Val loss: 0.212 | Gen: ixnay onway ehay ealray amenay  
Epoch: 52 | Train loss: 0.021 | Val loss: 0.206 | Gen: ixnay onway ethay ealray amenay  
Epoch: 53 | Train loss: 0.013 | Val loss: 0.219 | Gen: ixnay onway ethay ealray amenay  
Epoch: 54 | Train loss: 0.013 | Val loss: 0.226 | Gen: ixnay onway ethay ealray amenay  
Epoch: 55 | Train loss: 0.014 | Val loss: 0.240 | Gen: ixnay onway ethay ealray amenay  
Epoch: 56 | Train loss: 0.017 | Val loss: 0.278 | Gen: ixnay onway ethay ealray amenay  
Epoch: 57 | Train loss: 0.033 | Val loss: 0.243 | Gen: ixnay onway ethay ealray amenay  
Epoch: 58 | Train loss: 0.019 | Val loss: 0.373 | Gen: ixnay onway ethay ealray amenay  
Epoch: 59 | Train loss: 0.035 | Val loss: 0.306 | Gen: ixnay onway ethay ealray amenay  
Epoch: 60 | Train loss: 0.069 | Val loss: 0.884 | Gen: ixnay onway ethay ealwray amenay  
Epoch: 61 | Train loss: 0.205 | Val loss: 0.376 | Gen: ixnay onway ethay ealray amenay  
Epoch: 62 | Train loss: 0.117 | Val loss: 0.564 | Gen: ixnay onway ehaythay ealray amenay  
Epoch: 63 | Train loss: 0.154 | Val loss: 0.507 | Gen: ixnay onway ethay ealray amenay  
Epoch: 64 | Train loss: 0.092 | Val loss: 0.209 | Gen: ixnay onway ehay ealray amenay

Epoch: 65 | Train loss: 0.039 | Val loss: 0.169 | Gen: ixnay onway ethay ealray amenay  
Epoch: 66 | Train loss: 0.030 | Val loss: 0.306 | Gen: ixnay onway ethay ealray amenay  
Epoch: 67 | Train loss: 0.027 | Val loss: 0.158 | Gen: ixnay onway ethay ealray amenay  
Epoch: 68 | Train loss: 0.021 | Val loss: 0.210 | Gen: ixnay onway ethay ealray amenay  
Epoch: 69 | Train loss: 0.019 | Val loss: 0.171 | Gen: ixnay onway ethay ealray amenay  
Epoch: 70 | Train loss: 0.013 | Val loss: 0.195 | Gen: ixnay onway ethay ealray amenay  
Epoch: 71 | Train loss: 0.011 | Val loss: 0.200 | Gen: ixnay onway ethay ealray amenay  
Epoch: 72 | Train loss: 0.015 | Val loss: 0.170 | Gen: ixnay onway ethay ealray amenay  
Epoch: 73 | Train loss: 0.009 | Val loss: 0.169 | Gen: ixnay onway ethay ealray amenay  
Epoch: 74 | Train loss: 0.008 | Val loss: 0.185 | Gen: ixnay onway ethay ealray amenay  
Epoch: 75 | Train loss: 0.006 | Val loss: 0.180 | Gen: ixnay onway ethay ealray amenay  
Epoch: 76 | Train loss: 0.005 | Val loss: 0.182 | Gen: ixnay onway ethay ealray amenay  
Epoch: 77 | Train loss: 0.006 | Val loss: 0.183 | Gen: ixnay onway ethay ealray amenay  
Epoch: 78 | Train loss: 0.011 | Val loss: 0.205 | Gen: ixnay onway ethay ealray amenay  
Epoch: 79 | Train loss: 0.035 | Val loss: 0.346 | Gen: ixnay onway ethay eewray emenay  
Epoch: 80 | Train loss: 0.057 | Val loss: 0.590 | Gen: ivnay onway ethay ealray away  
Epoch: 81 | Train loss: 0.147 | Val loss: 0.321 | Gen: ixnay onway ethay ealray amenay  
Epoch: 82 | Train loss: 0.069 | Val loss: 0.244 | Gen: ixnay onway ethay ealray ayenay  
Epoch: 83 | Train loss: 0.040 | Val loss: 0.172 | Gen: ixnay onway ethay ealray amenay  
Epoch: 84 | Train loss: 0.019 | Val loss: 0.194 | Gen: ixnay onway ethay ealray amenay  
Epoch: 85 | Train loss: 0.014 | Val loss: 0.146 | Gen: ixnay onway ethay ealray amenay  
Epoch: 86 | Train loss: 0.010 | Val loss: 0.138 | Gen: ixnay onway ethay ealray amenay  
Epoch: 87 | Train loss: 0.008 | Val loss: 0.145 | Gen: ixnay onway ethay ealray amenay  
Epoch: 88 | Train loss: 0.006 | Val loss: 0.146 | Gen: ixnay onway ethay ealray amenay  
Epoch: 89 | Train loss: 0.005 | Val loss: 0.146 | Gen: ixnay onway ethay ealray amenay  
Epoch: 90 | Train loss: 0.004 | Val loss: 0.146 | Gen: ixnay onway ethay ealray amenay  
Epoch: 91 | Train loss: 0.004 | Val loss: 0.156 | Gen: ixnay onway ethay ealray amenay  
Epoch: 92 | Train loss: 0.003 | Val loss: 0.154 | Gen: ixnay onway ethay ealray amenay  
Epoch: 93 | Train loss: 0.005 | Val loss: 0.174 | Gen: ixnay onway ethay ealray amenay  
Epoch: 94 | Train loss: 0.019 | Val loss: 0.243 | Gen: ixnay onway ethay ealray amenay  
Epoch: 95 | Train loss: 0.028 | Val loss: 0.173 | Gen: ixnay onway ethay ealray amenay  
Epoch: 96 | Train loss: 0.090 | Val loss: 0.632 | Gen: ixnay onway ethay ealwray amenay  
Epoch: 97 | Train loss: 0.080 | Val loss: 0.187 | Gen: ixnay onway ethay ealray amenay  
Epoch: 98 | Train loss: 0.022 | Val loss: 0.260 | Gen: ixnay onway ethay ealray amenamenay  
Epoch: 99 | Train loss: 0.011 | Val loss: 0.168 | Gen: ixnay onway ethay ealray amenay  
Epoch: 100 | Train loss: 0.006 | Val loss: 0.155 | Gen: ixnay onway ethay ealray amenay  
source: nix on the real name  
translated: ixnay onway ethay ealray amenay

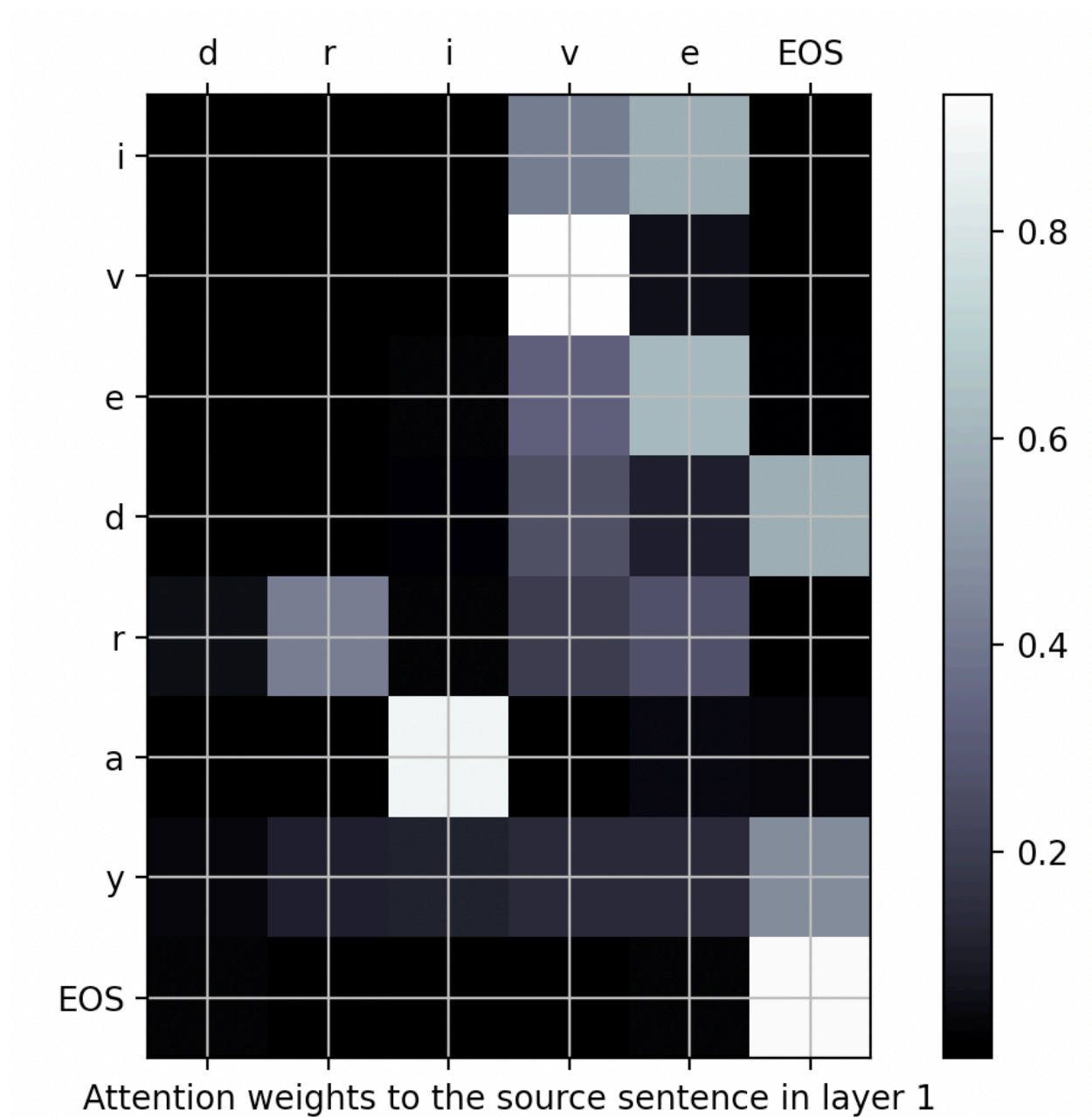
Success: both the sentence and the word “bake”

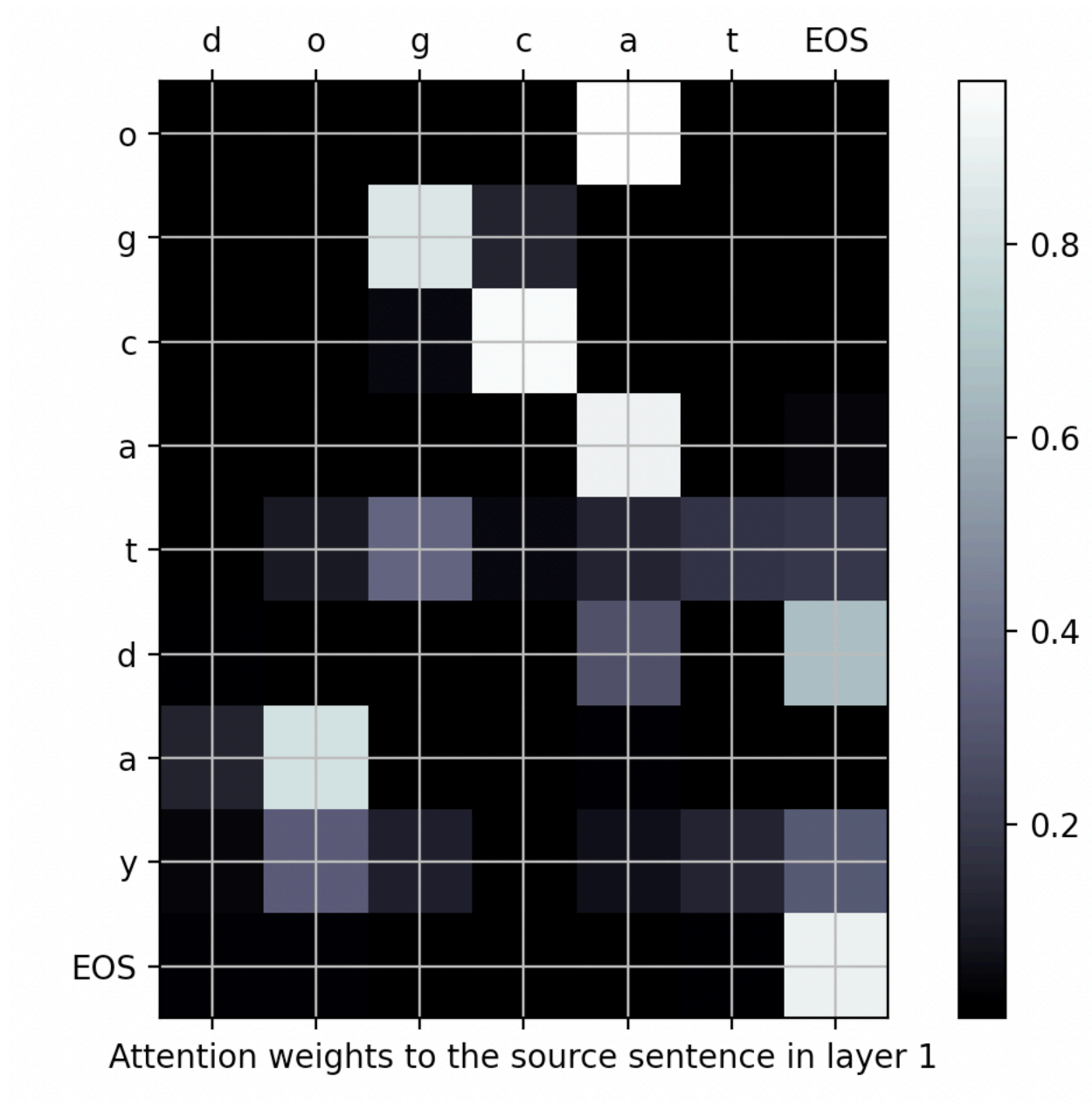
BS=64, nhid=20



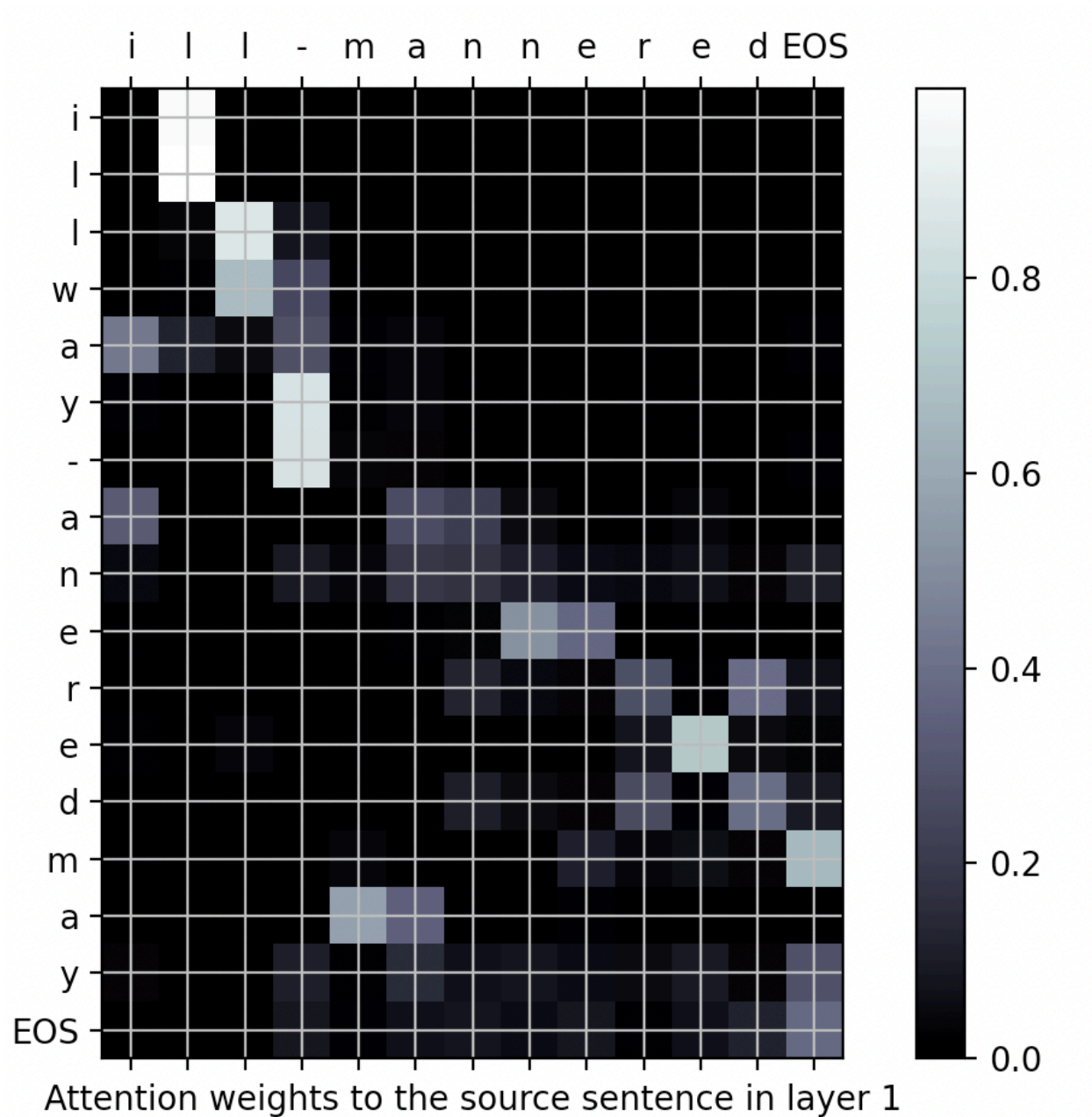


More successes: drive, dogcat (made up word not in training data)

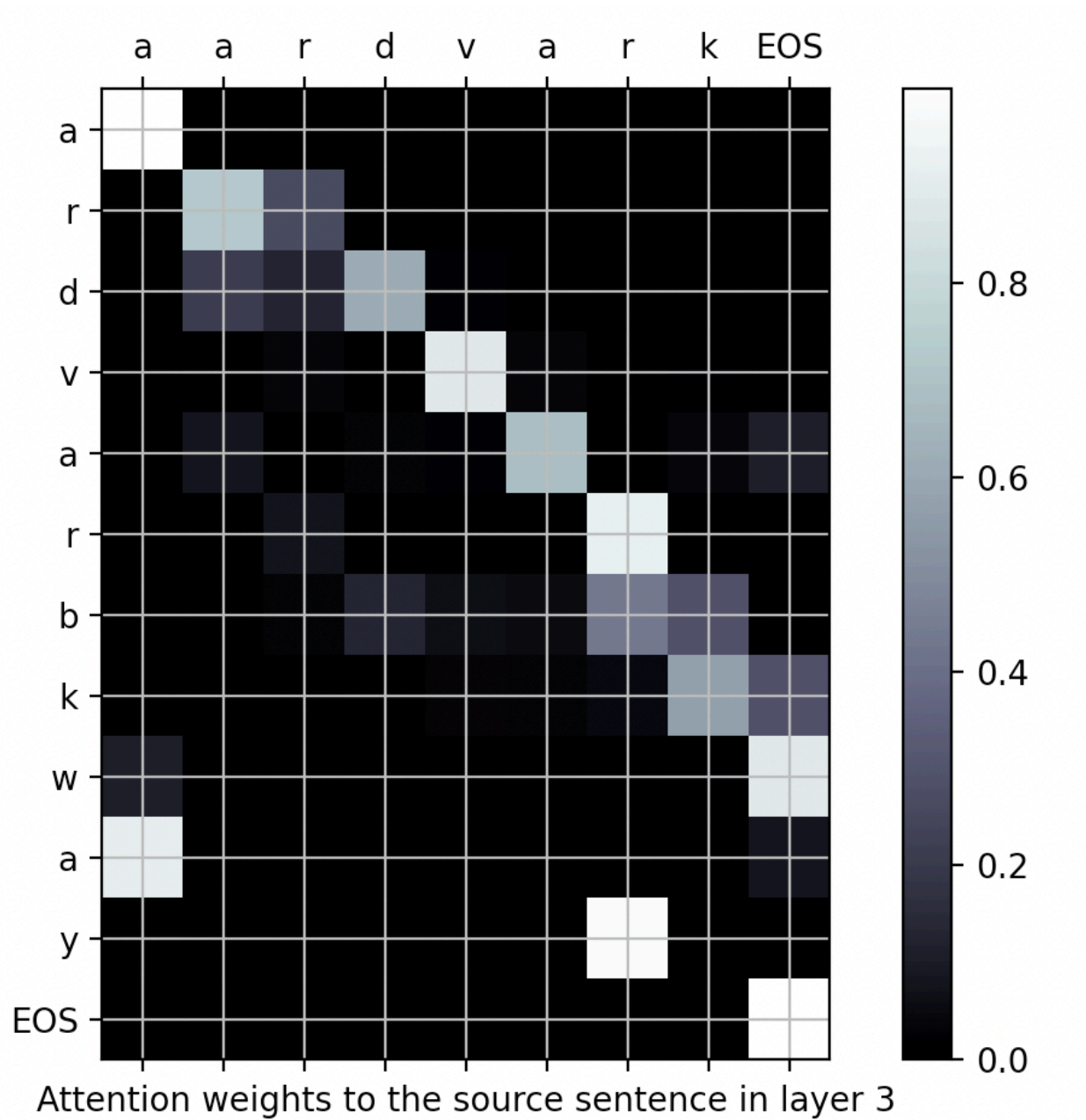




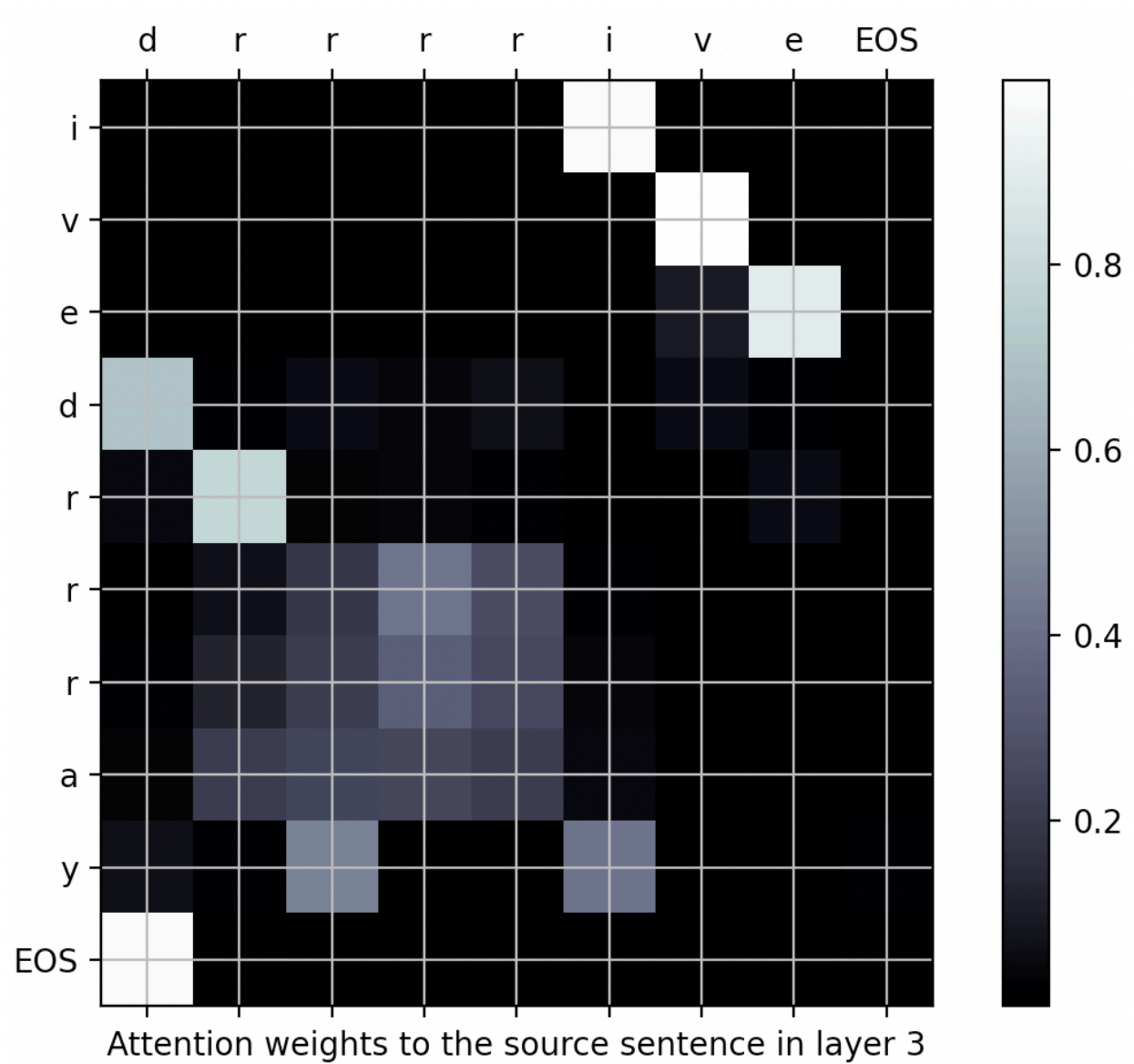
Failure: aardvark, ill-mannered (very close, missing one n), xylophone (real word but rarer letter combo), drrrive (toy word, 4 rs, missing one)

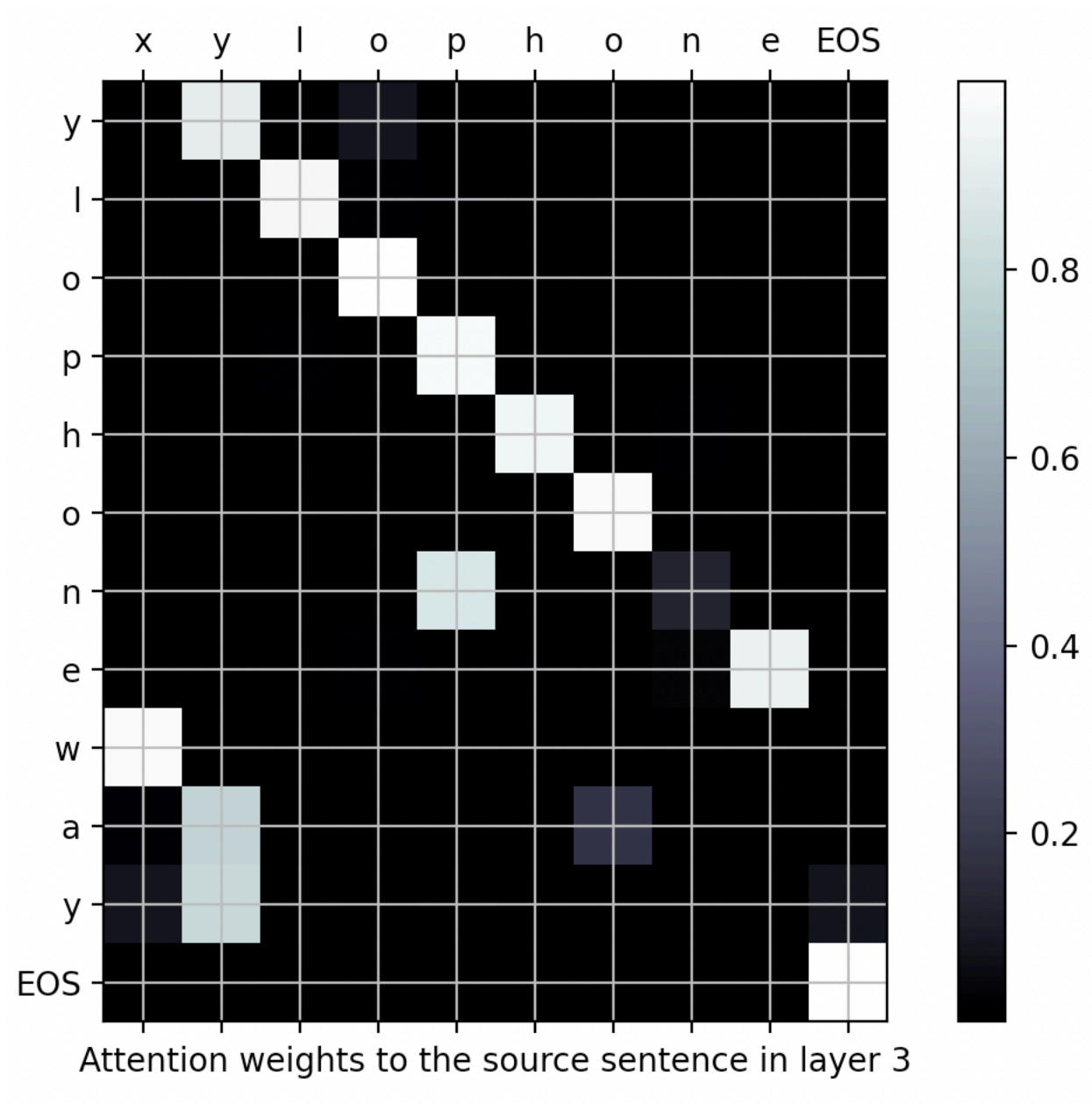












Hypotheses for success and failures:

Successes:

- street: Very common word, simple to translate
- bake: Starts with consonant, then follows a basic pattern
- drive: Same as above, starts with simple consonant pattern
- dogcat: Builds patterns from common words "dog" and "cat", attends well

Failures:

- aardvark: Rare letter combination of aard, causing uncertainty
- ill-mannered: Gets most translation right, fails on extra n due to length
- xylophone: very unusual starting consonant, perhaps outside training vocabulary
- drrrrive: Fails to add that 4th r properly, repetition confuses attention