1 Transformer 1 layer

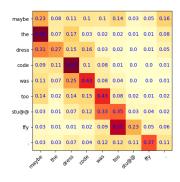
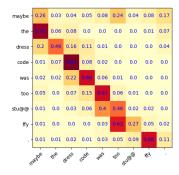
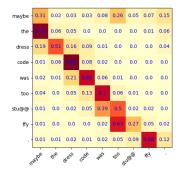


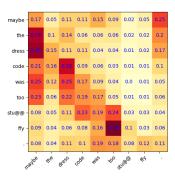
Figure 1: 1 attention head



 maybe
 - 0.18
 0.06
 0.12
 0.13
 0.09
 0.02
 0.22
 0.23
 0.09
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.22
 0.23
 0.23
 0.04
 0.05
 0.04
 0.05
 0.02
 0.02
 0.01
 0.05
 0.02
 0.02
 0.01
 0.05
 0.02
 0.02
 0.01
 0.05
 0.02
 0.02
 0.01
 0.05
 0.02
 0.02
 0.01
 0.05
 0.02
 0.02
 0.01
 0.05
 0.02
 0.02
 0.01
 0.05
 0.02
 0.02
 0.02
 0.02
 0.02
 0.02
 0.02
 0.02
 0.02
 0.02
 0.02
 0.02
 0.02
 0.02
 0.02
 0.02
 0.02
 0.02
 0.02
 0.02

Figure 2: 2 attention heads





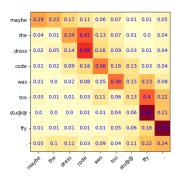


Figure 3: 3 attention heads

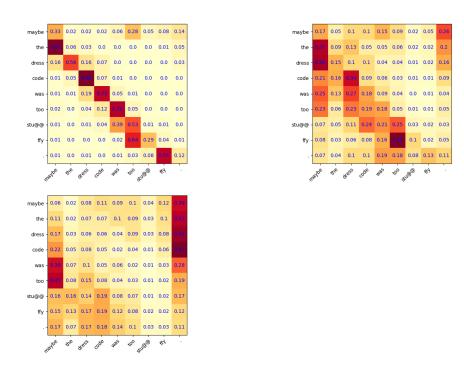


Figure 4: 4 attention heads

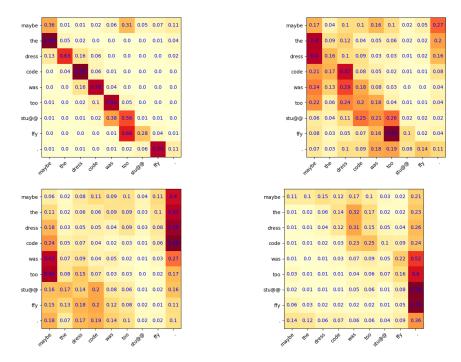
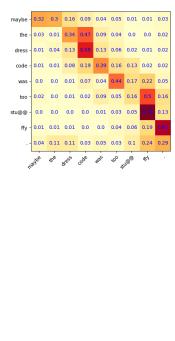


Figure 5: 5 attention heads



maybe - 0.32 0.26 0.16 0.1 0.05 0.05 0.01 0.01 0.04

the - 0.04 0.01 0.31 0.44 0.11 0.05 0.0 0.0 0.03

code - 0.01 0.01 0.08 0.17 0.39 0.16 0.12 0.02 0.03

too - 0.03 0.0 0.01 0.02 0.1 0.05 0.14 0.43 0.21

ffy - 0.01 0.01 0.01 0.01 0.04 0.05 0.16

0.01 0.04 0.13 0.52 0.16 0.08 0.02 0.01 0.03

0.01 0.0 0.02 0.07 0.05 **0.41** 0.15 0.22 0.07

0.0 0.0 0.0 0.01 0.01 0.04 0.05 0.7 0.19

0.05 0.1 0.1 0.03 0.07 0.03 0.1 0.22 0.29

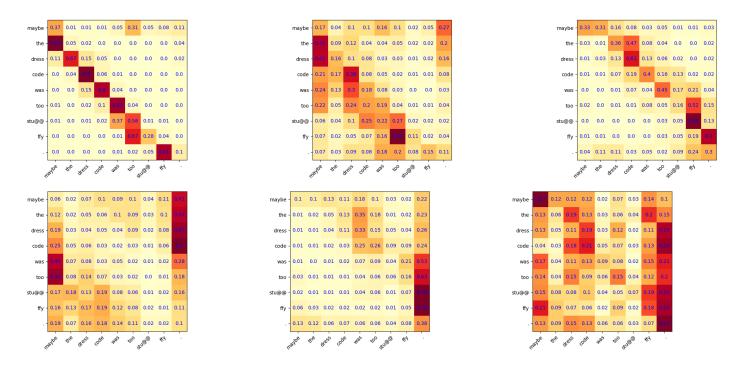


Figure 6: 6 attention heads

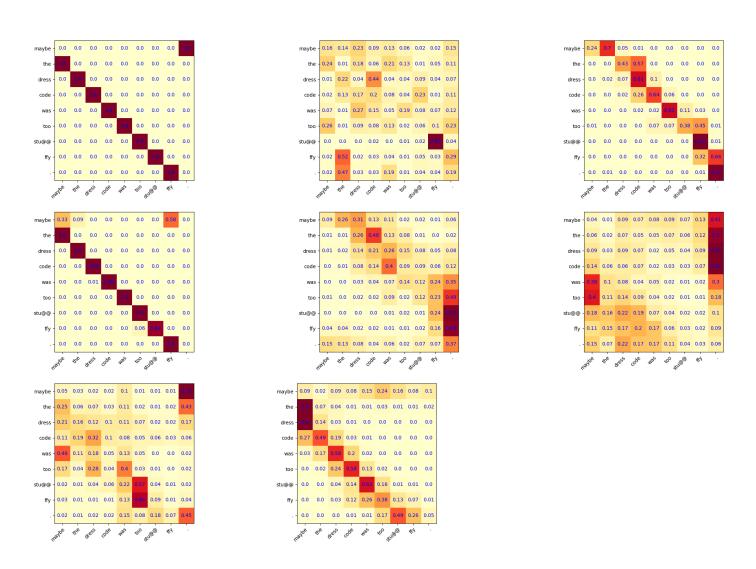


Figure 7: Full model trained using 8 attention heads at the same time