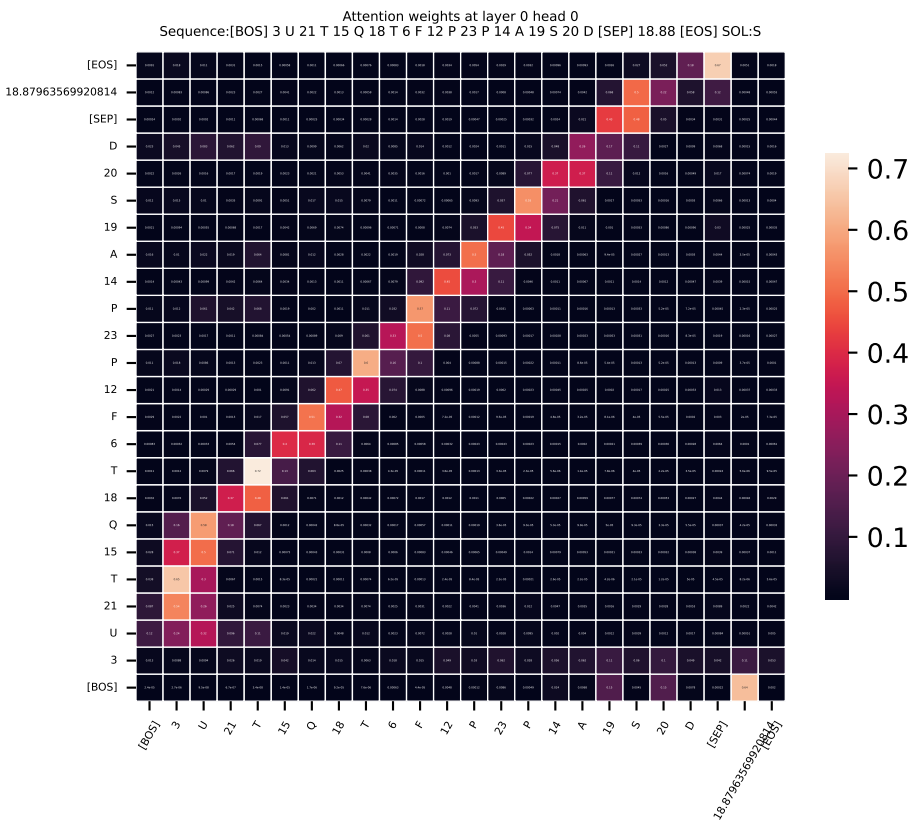
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[EOS]
18.87963569920814
[SEP]
D
20
S
19
A
14
P
23
P
12
F
6
T
18
Q
15
T
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U
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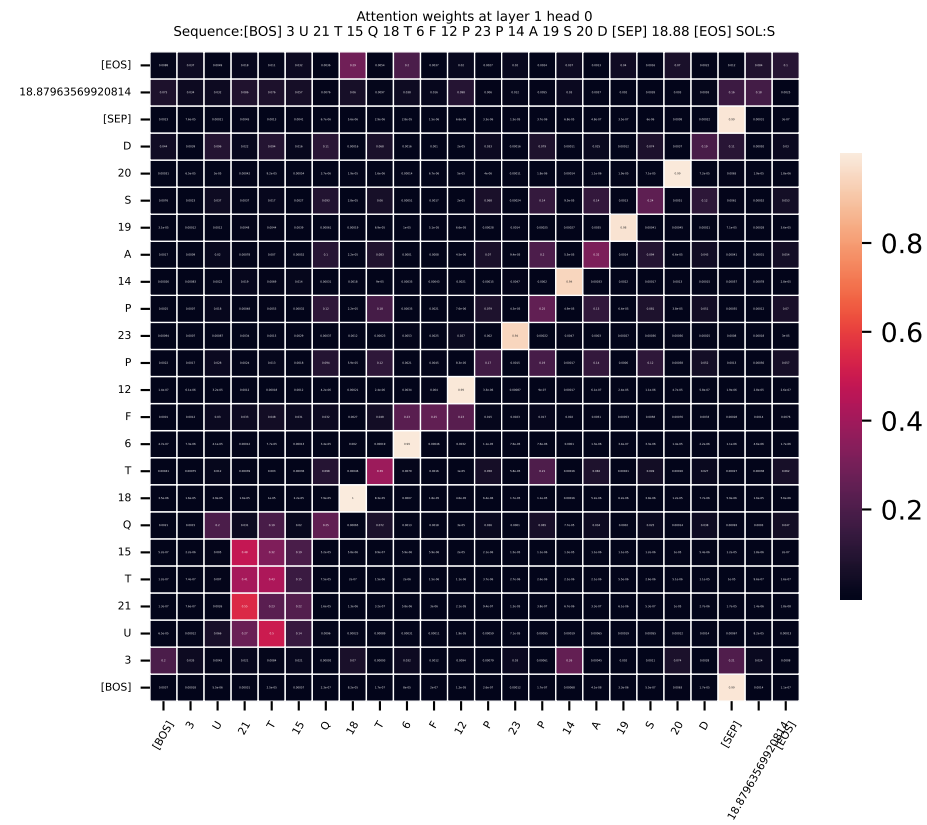
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[SEP]
D
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S
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A
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P
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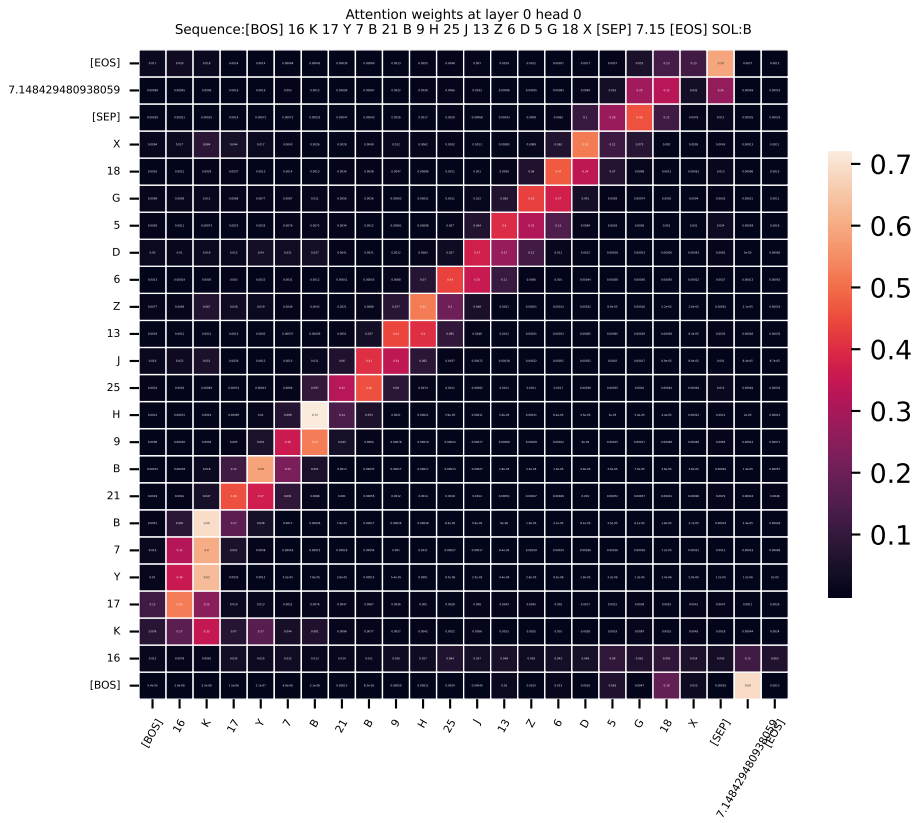
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[EOS]
7.148429480938059
[SEP]
X
18
G
5
D
6
Z
13
J
25
H
9
B
21
B
7
Y
17
K
16
[BOS]
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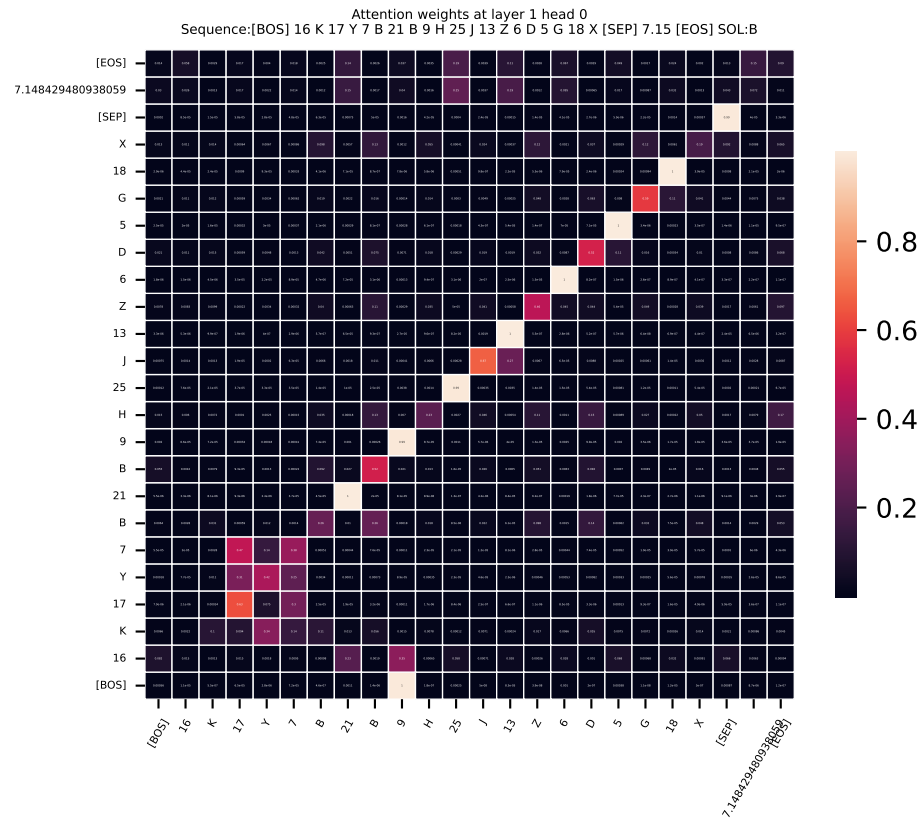
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[SEP]
X
18
G
5
D
6
Z
13
J
25
H
9
B
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B
7
Y
17
K
16
[BOS]
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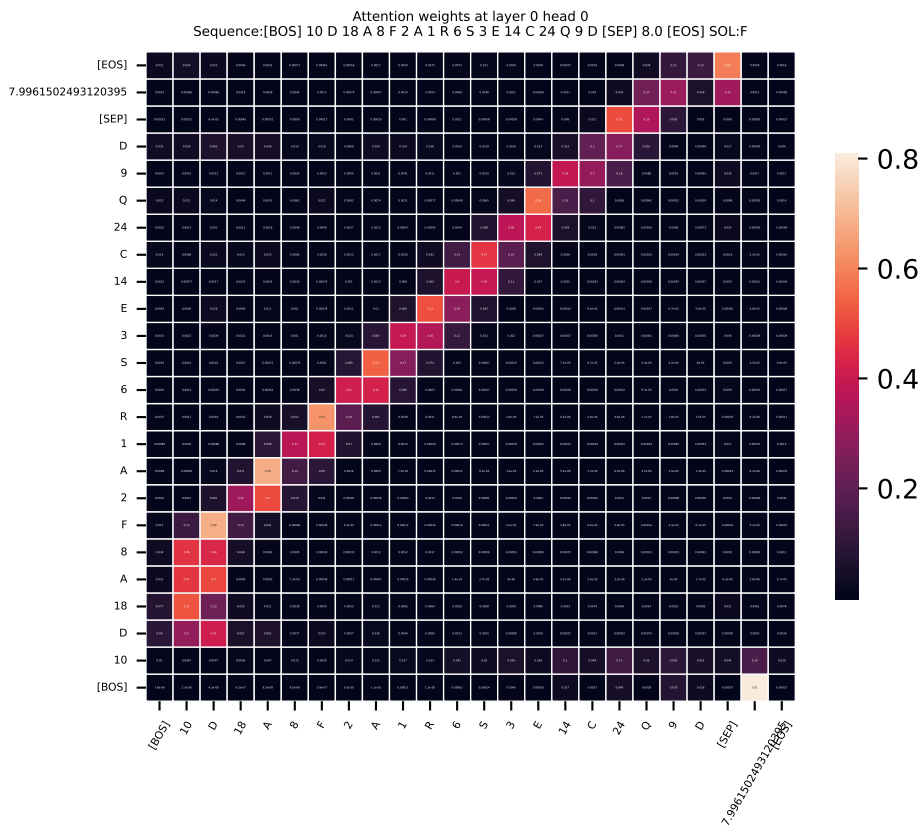
Attention weights at layer 0 head 0
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[EOS]
7.9961502493120395
[SEP]
D
9
Q
24
C
14
E
3
S
6
R
1
A
2
F
8
A
18
D
10
[BOS]
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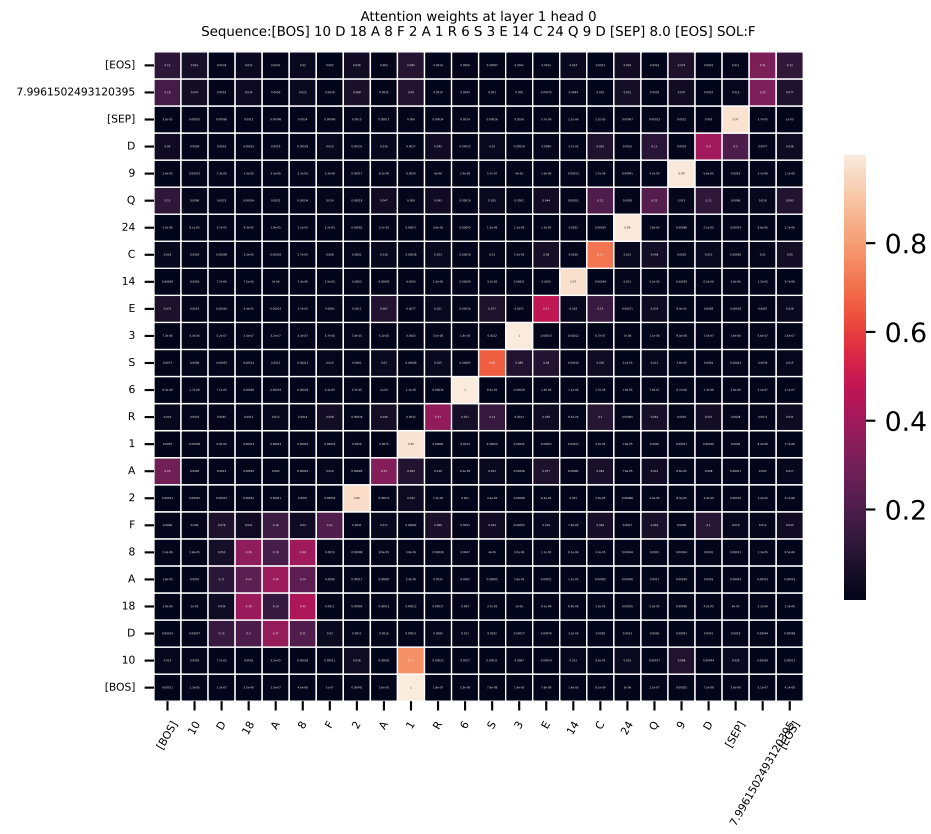
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[SEP]
D
9
Q
24
C
14
E
3
S
6
R
1
A
2
F
8
A
18
D
10
[BOS]
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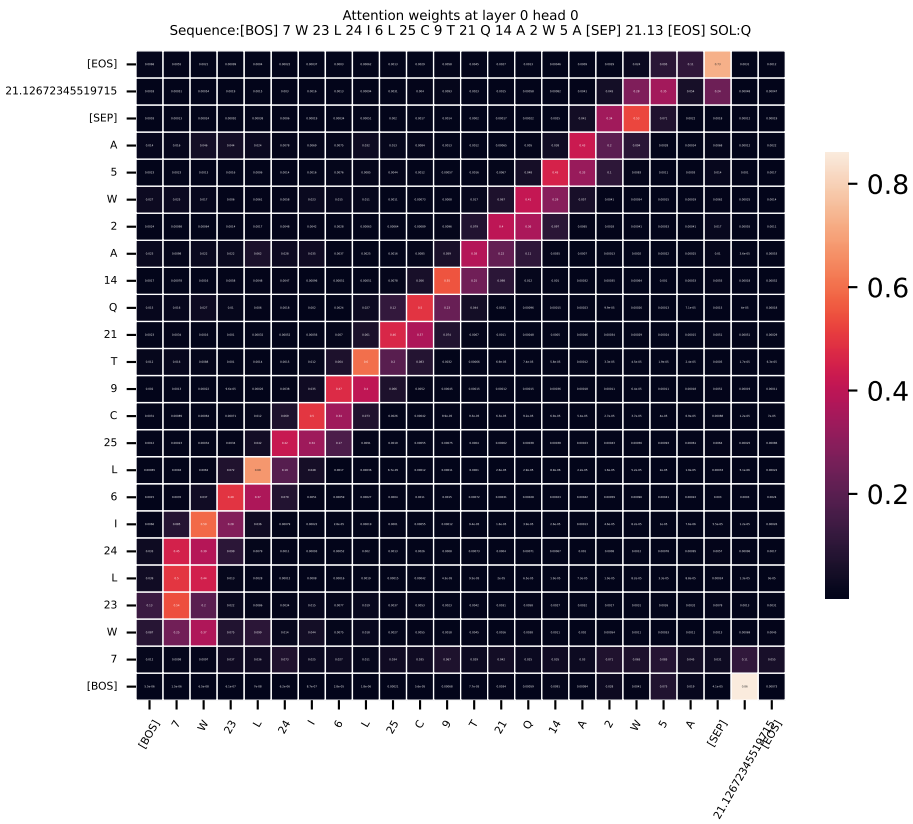
Attention weights at layer 0 head 0
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[EOS]
21.12672345519715
[SEP]
A
5
W
2
A
14
Q
21
T
9
C
25
L
6
I
24
L
23
W
7
[BOS]
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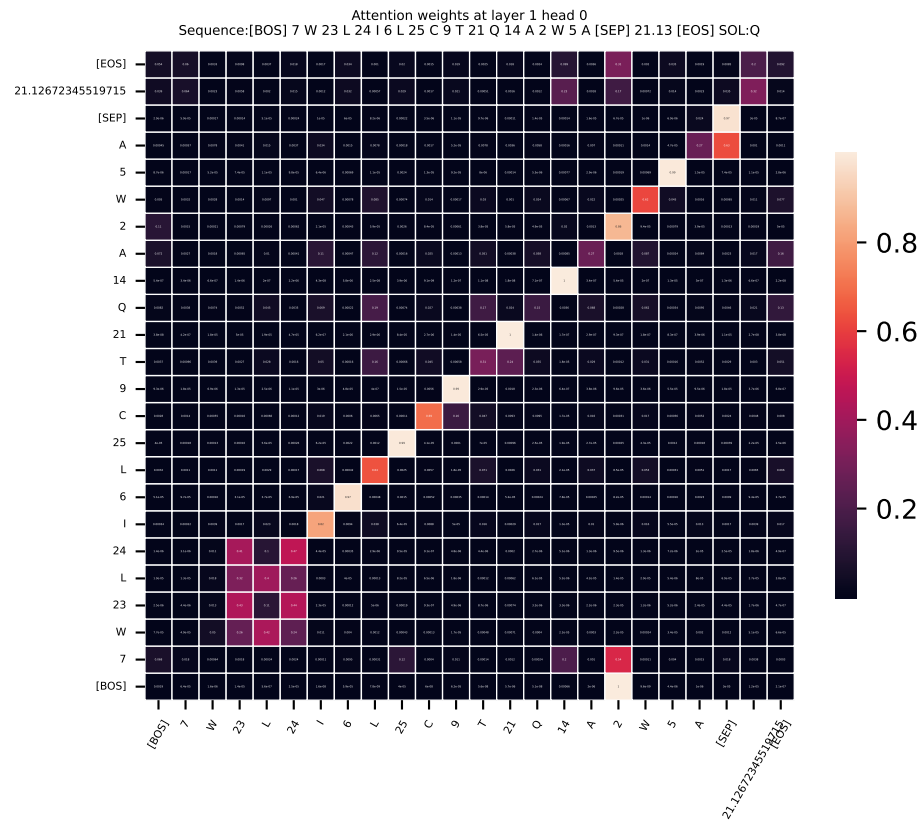
0.4
0.2


Attention weights at layer 1 head 0
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[EOS]
21.12672345519715
[SEP]
A
5
W
2
A
14
Q
21
T
9
C
25
L
6
I
24
L
23
W
7
[BOS]
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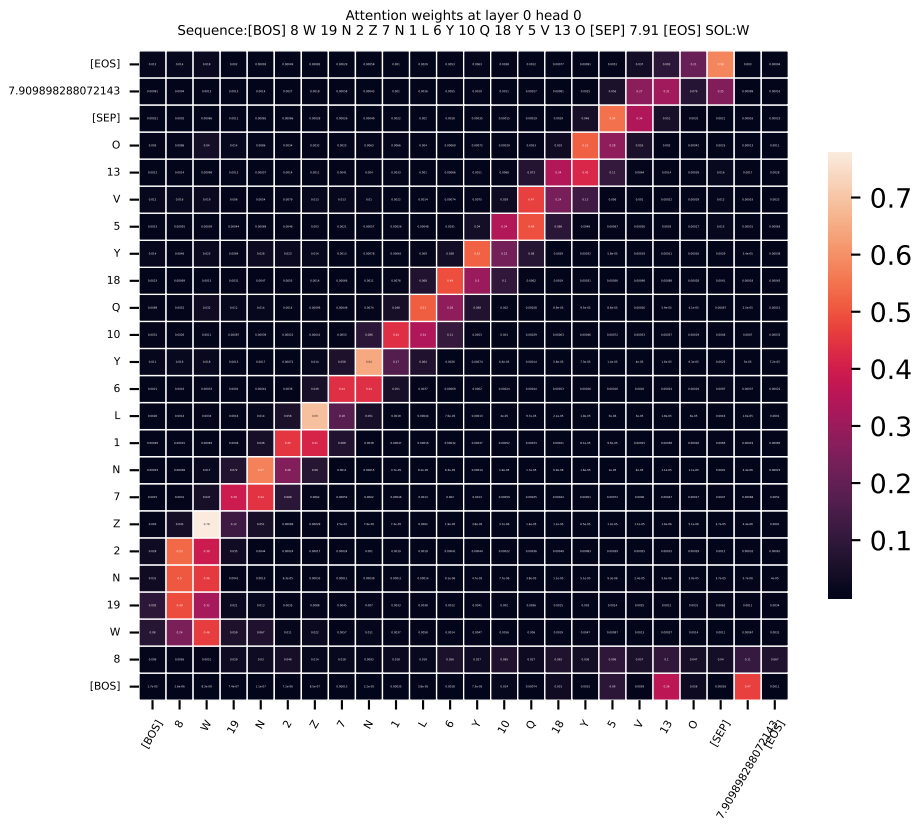
Attention weights at layer 0 head 0
Sequence:[BOS] 8 W 19 N 2 Z 7 N 1 L 6 Y 10 Q 18 Y 5 V 13 O [SEP] 7.91 [EOS] SOL:W
[EOS]
7.909898288072143
[SEP]
O
13
V
5
Y
18
Q
10
Y
6
L
1
N
7
Z
2
N
19
W
8
[BOS]
[BOS] 8 W 19 N 2 Z 7 N 1 L 6 Y 10 Q 18 Y 5 V 13 O [SEP] 7.909898288072143 [EOS]
0.7
0.6
0.5
0.4
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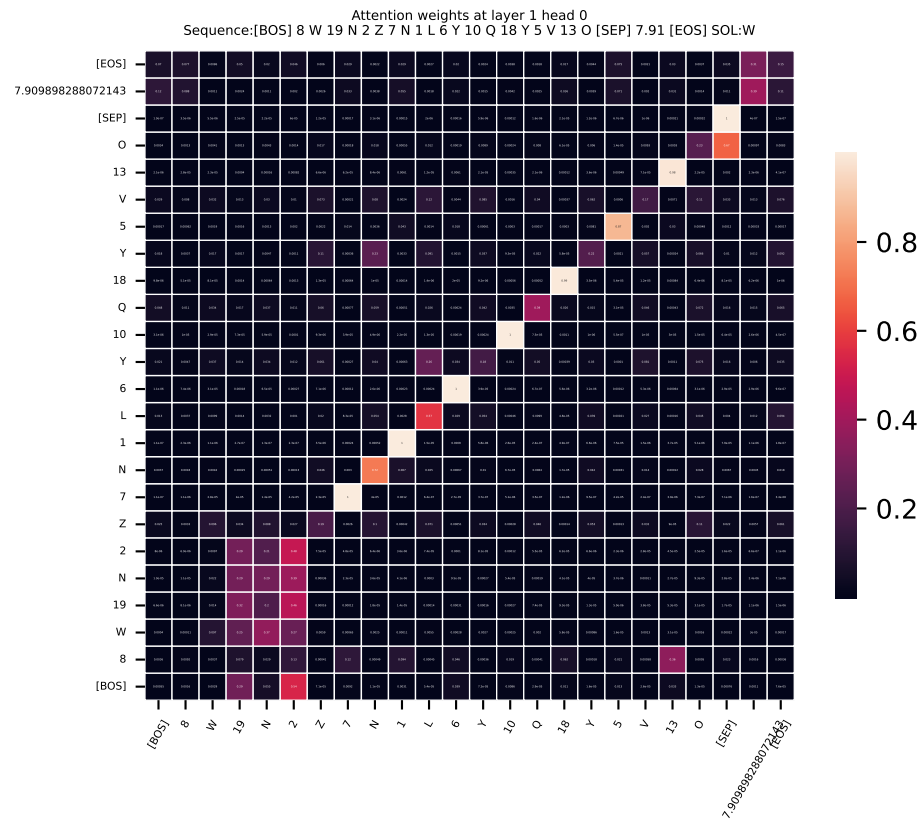
Attention weights at layer 1 head 0
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[EOS]
7.909898288072143
[SEP]
O
13
V
5
Y
18
Q
10
Y
6
L
1
N
7
Z
2
N
19
W
8
[BOS]
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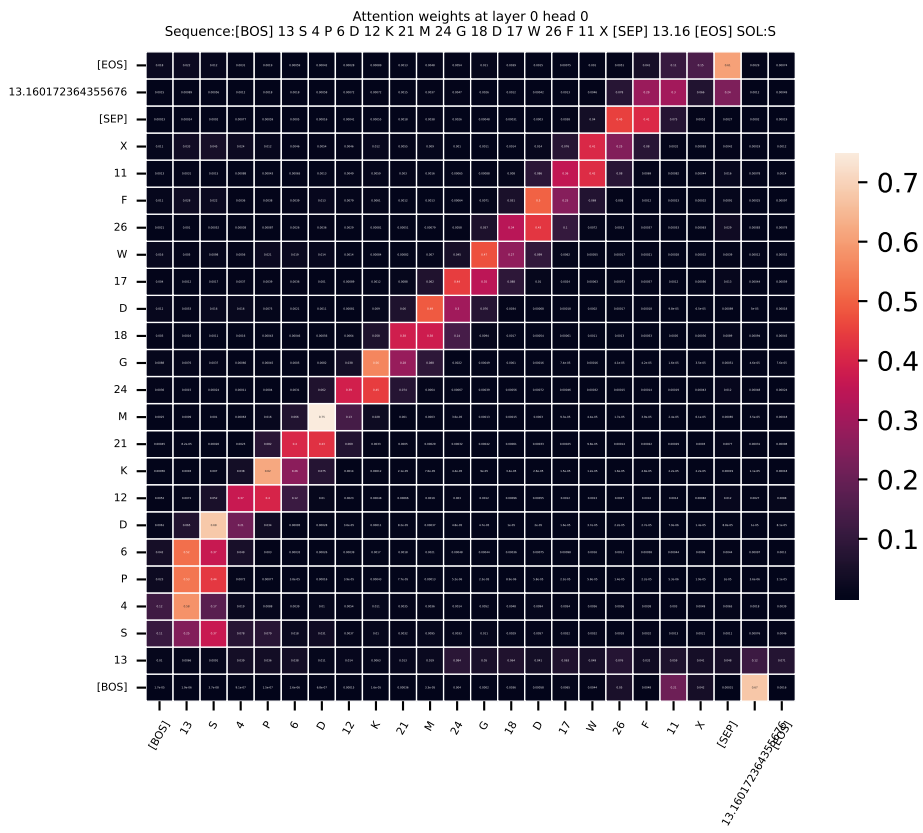
Attention weights at layer 0 head 0
Sequence:[BOS] 13 S 4 P 6 D 12 K 21 M 24 G 18 D 17 W 26 F 11 X [SEP] 13.16 [EOS] SOL:S
[EOS]
13.160172364355676
[SEP]
X
11
F
26
W
17
D
18
G
24
M
21
K
12
D
6
P
4
S
13
[BOS]
[BOS] 13 S 4 P 6 D 12 K 21 M 24 G 18 D 17 W 26 F 11 X [SEP] 13.16 [EOS] SOL:S
0.7
0.6
0.5
0.4
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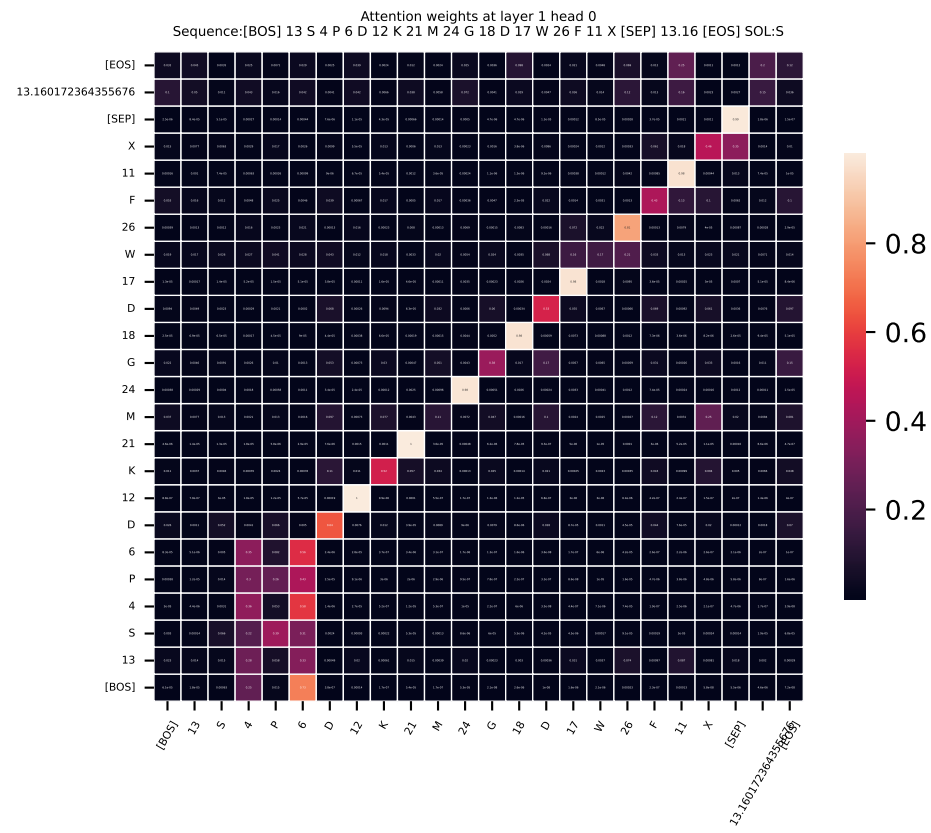
Attention weights at layer 1 head 0
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[EOS]
13.160172364355676
[SEP]
X
11
F
26
W
17
D
18
G
24
M
21
K
12
D
6
P
4
S
13
[BOS]
[BOS] 13 S 4 P 6 D 12 K 21 M 24 G 18 D 17 W 26 F 11 X [SEP] 13.16 [EOS] SOL:S
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0.4
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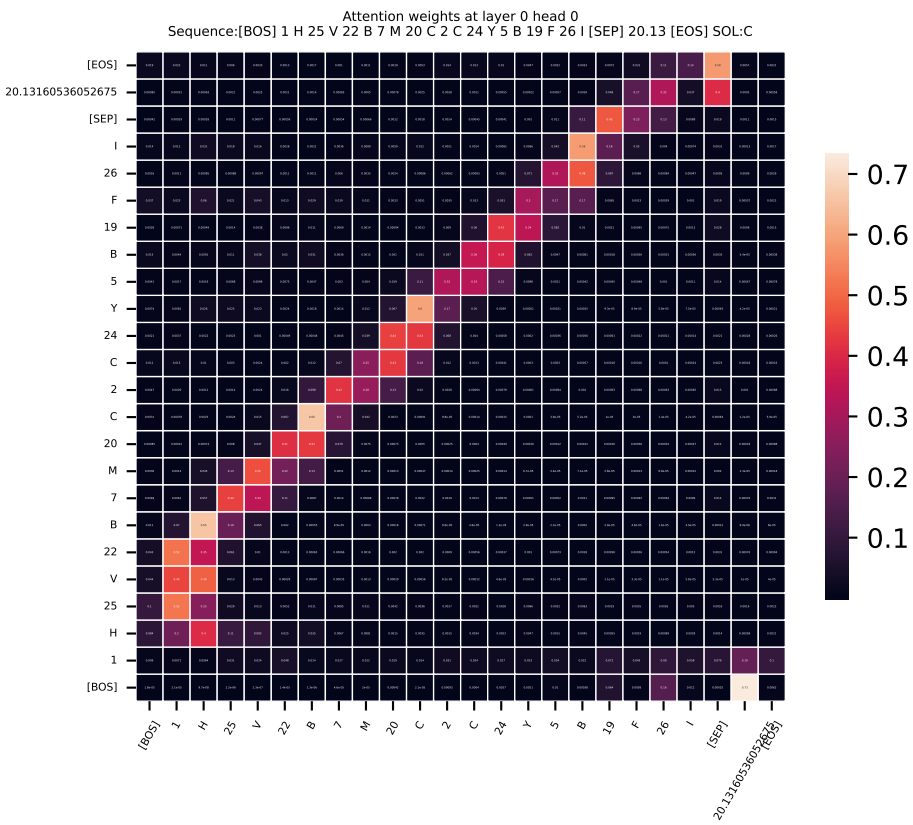
Attention weights at layer 0 head 0
Sequence:[BOS] 1 H 25 V 22 B 7 M 20 C 2 C 24 Y 5 B 19 F 26 I [SEP] 20.13 [EOS] SOL:C
[EOS]
20.13160536052675
[SEP]
I
26
F
19
B
5
Y
24
C
2
C
20
M
7
B
22
V
25
H
1
[BOS]
[BOS] 1 H 25 V 22 B 7 M 20 C 2 C 24 Y 5 B 19 F 26 I [SEP] 20.13 [EOS]
0.7
0.6
0.5
0.4
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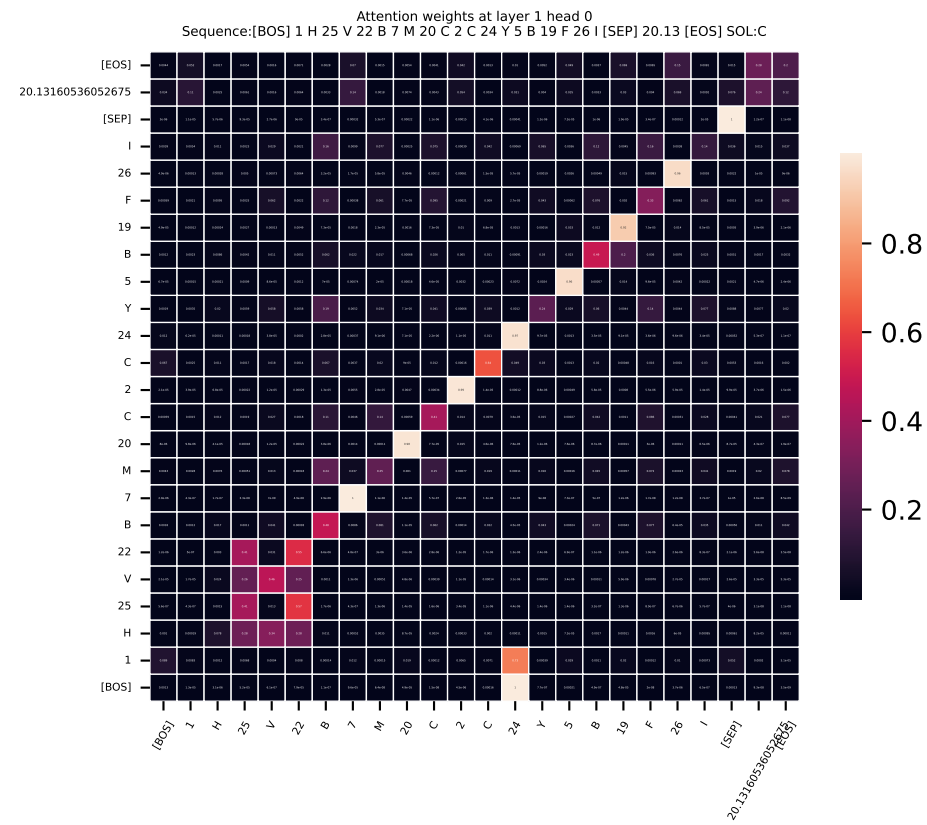
0.2
0.1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20.13160536052675
[SEP]
I
26
F
19
B
5
Y
24
C
2
C
20
M
7
B
22
V
25
H
1
[BOS]
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0.4
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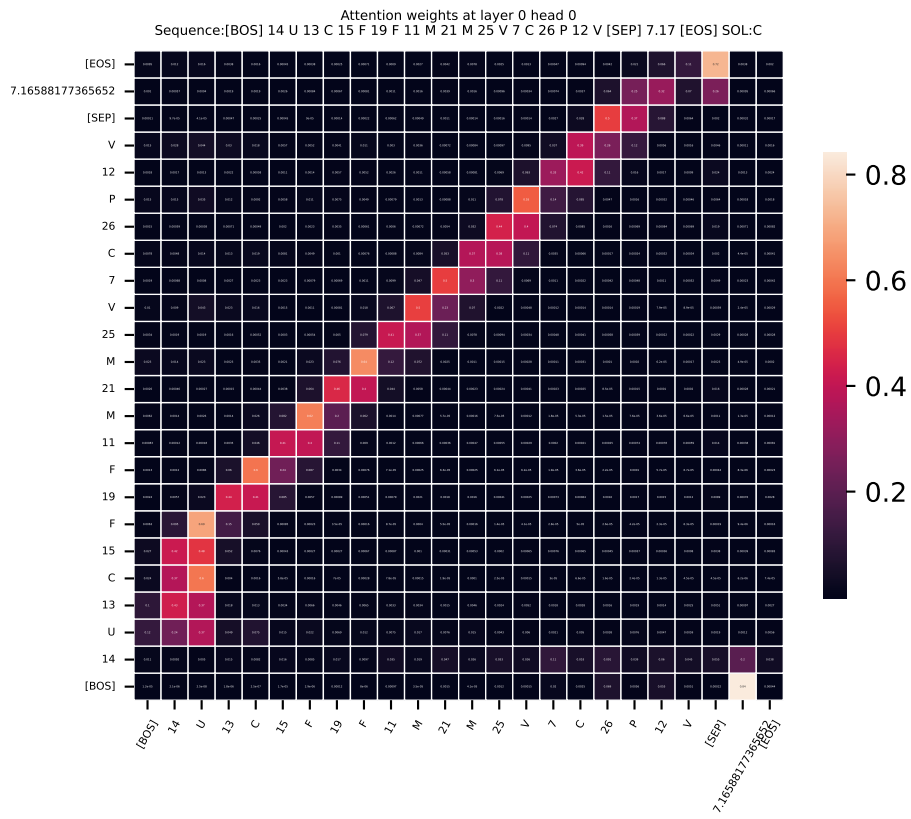
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[EOS]
7.16588177365652
[SEP]
V
12
P
26
C
7
V
25
M
21
M
11
F
19
F
15
C
13
U
14
[BOS]
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0.8
0.6
0.4
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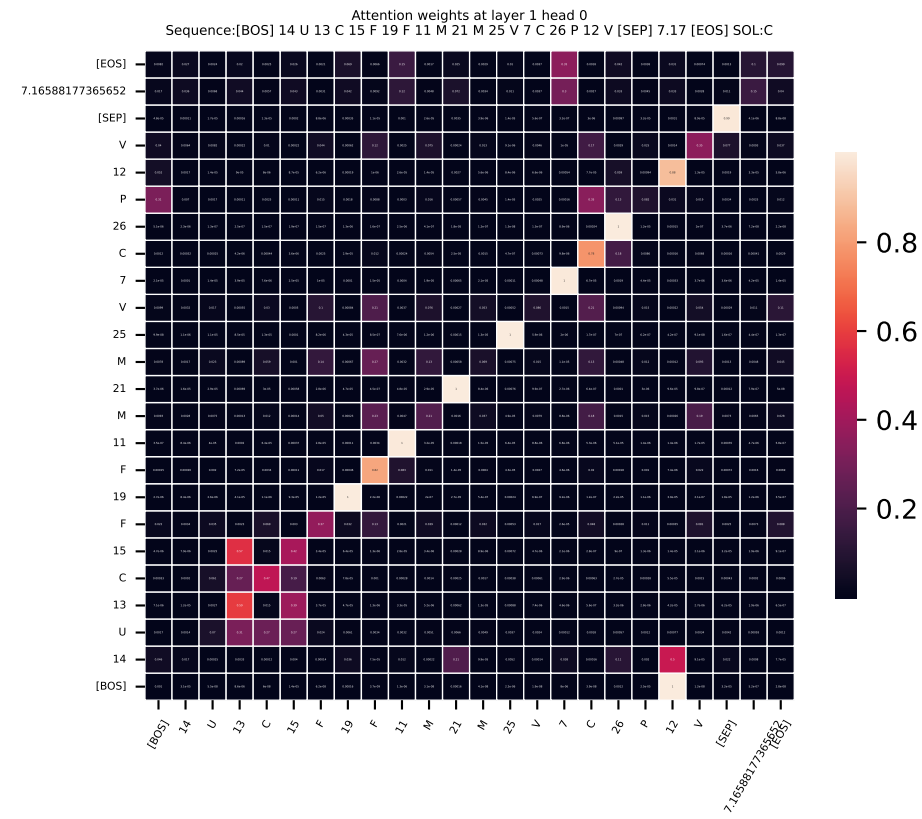
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7.16588177365652
[SEP]
V
12
P
26
C
7
V
25
M
21
M
11
F
19
F
15
C
13
U
14
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0.6
0.4
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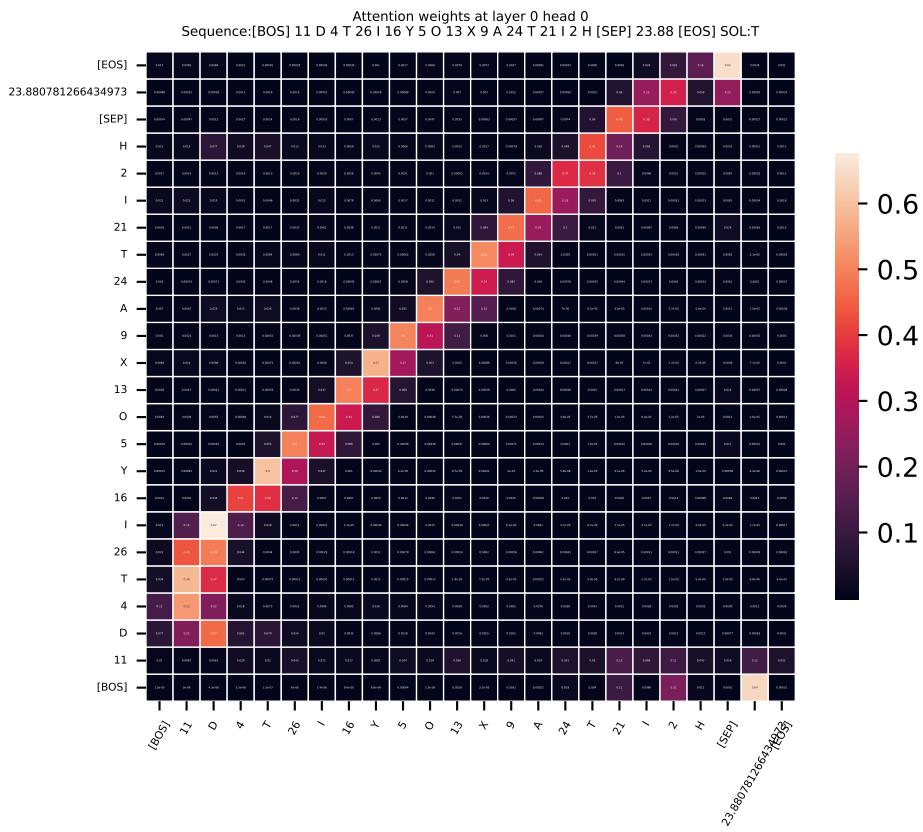
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[EOS]
23.880781266434973
[SEP]
H
2
I
21
T
24
A
9
X
13
O
5
Y
16
I
26
T
4
D
11
[BOS]
[BOS] 11 D 4 T 26 I 16 Y 5 O 13 X 9 A 24 T 21 I 2 H [SEP] 23.88 [EOS]
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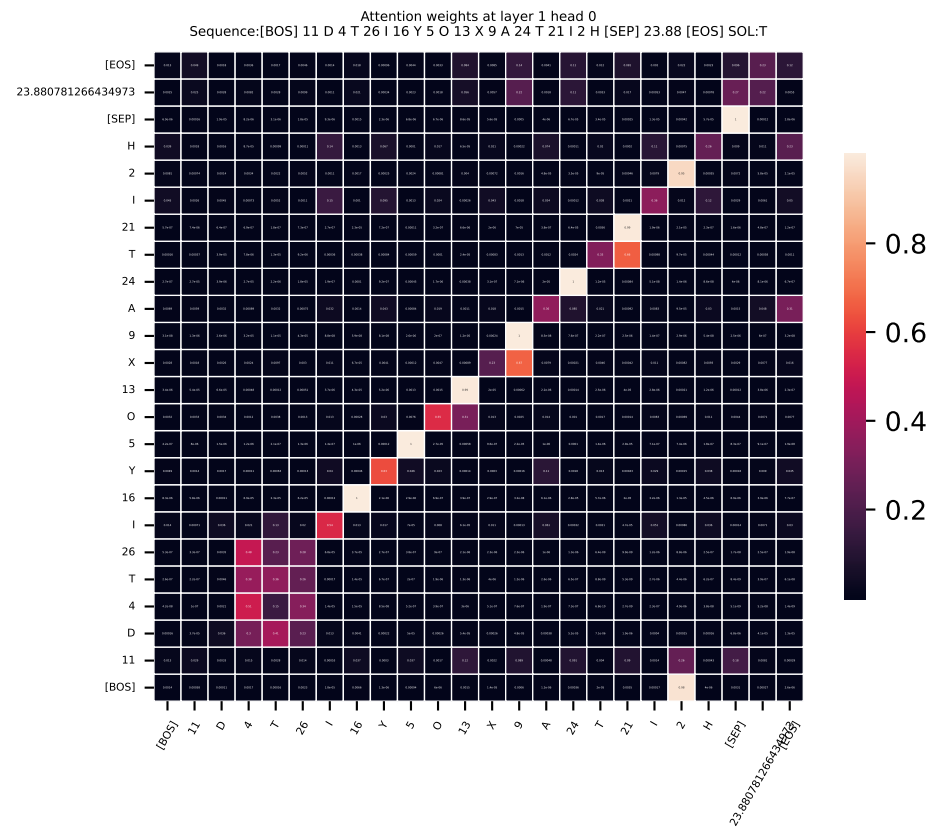
Attention weights at layer 1 head 0
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[EOS]
23.880781266434973
[SEP]
H
2
I
21
T
24
A
9
X
13
O
5
Y
16
I
26
T
4
D
11
[BOS]
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0.4
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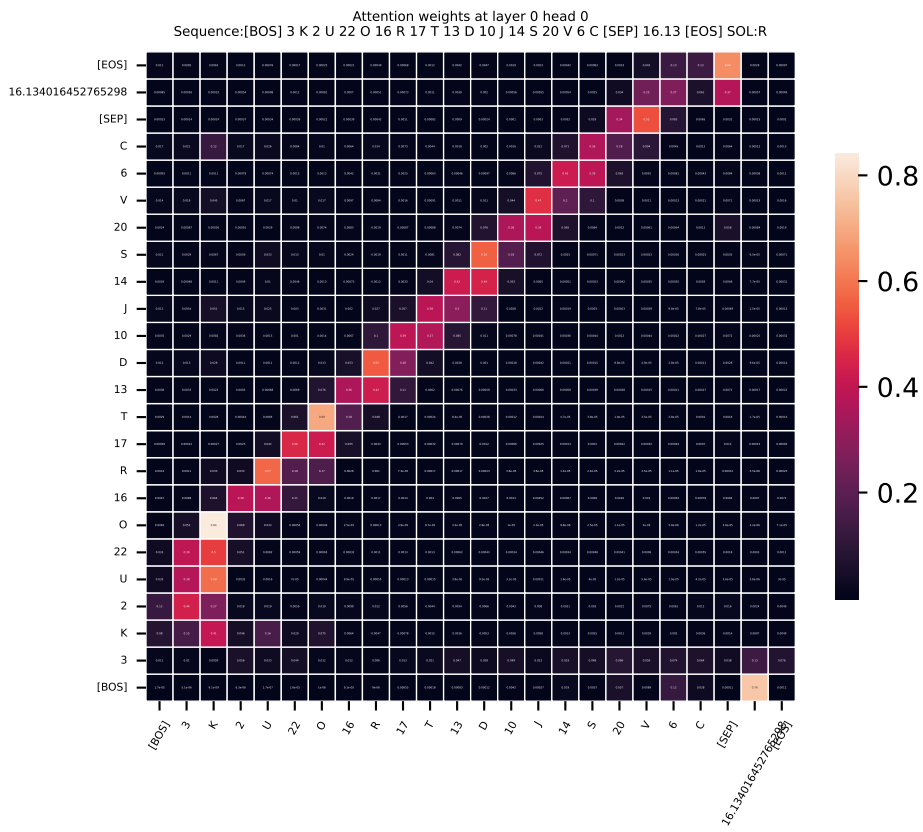
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Sequence:[BOS] 3 K 2 U 22 O 16 R 17 T 13 D 10 J 14 S 20 V 6 C [SEP] 16.13 [EOS] SOL:R
[EOS]
16.134016452765298
[SEP]
C
6
V
20
S
14
J
10
D
13
T
17
R
16
O
22
U
2
K
3
[BOS]
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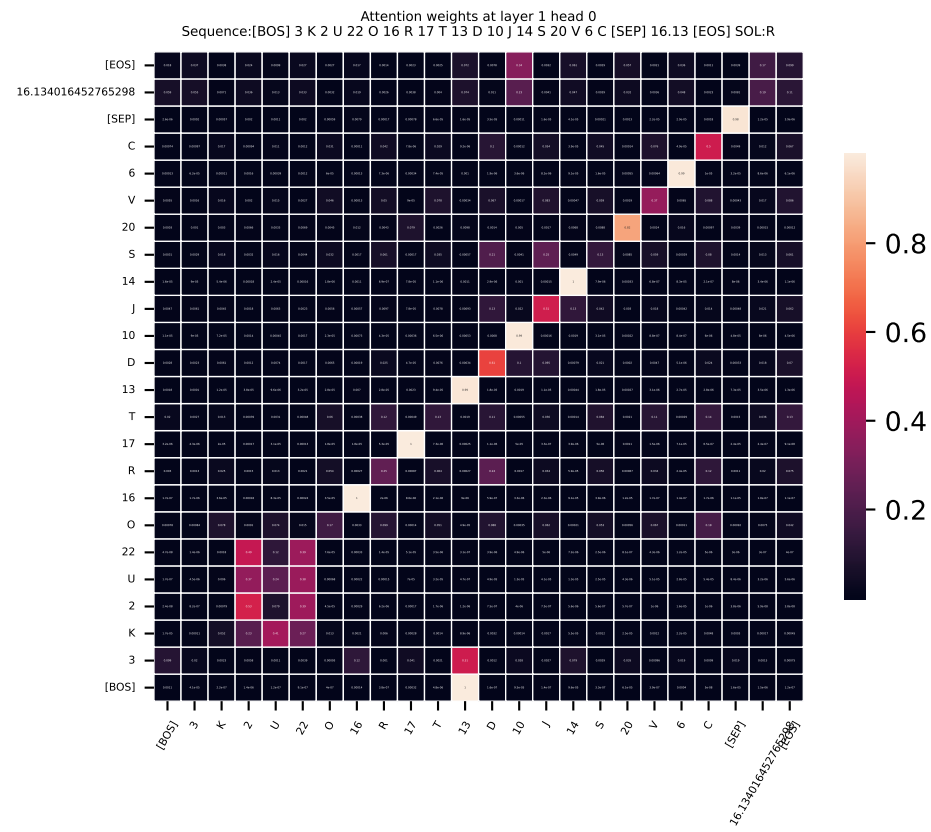
Attention weights at layer 1 head 0
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[SEP]
C
6
V
20
S
14
J
10
D
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T
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R
16
O
22
U
2
K
3
[BOS]
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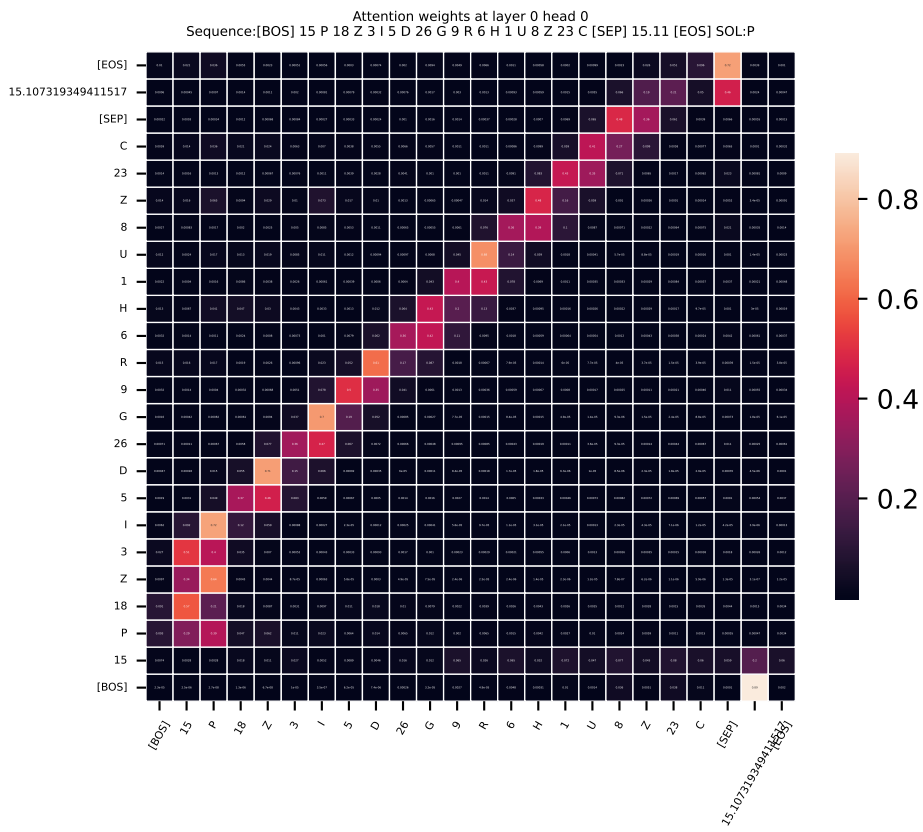
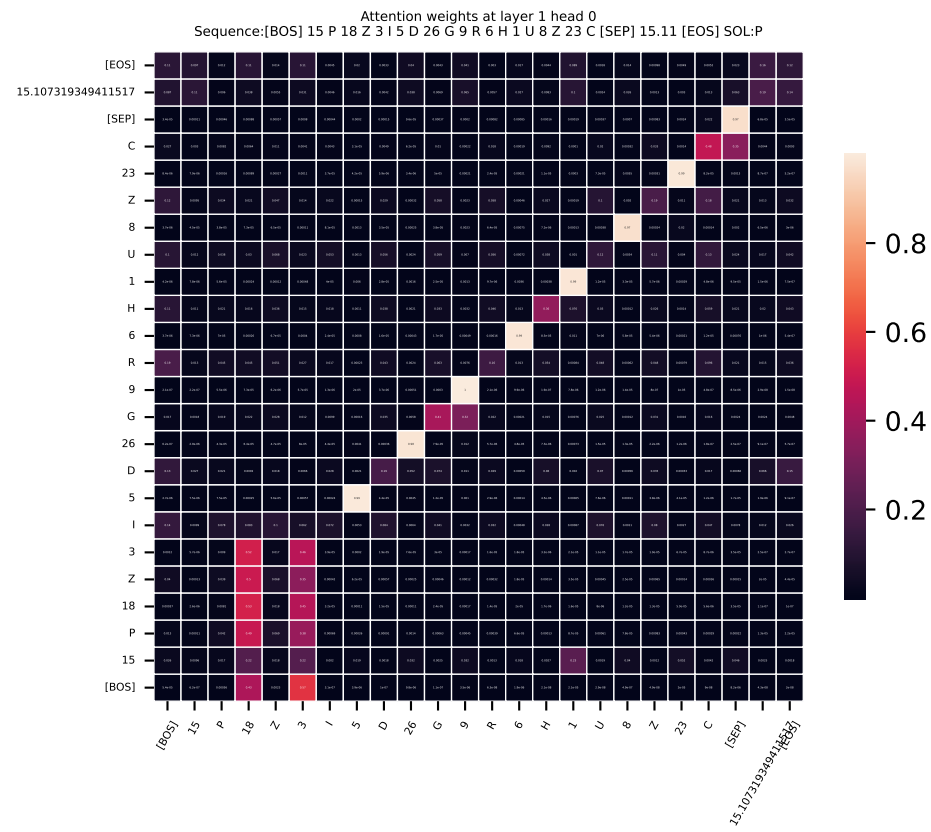
0.4
0.2


Attention weights at layer 0 head 0
Sequence:[BOS] 15 P 18 Z 3 I 5 D 26 G 9 R 6 H 1 U 8 Z 23 C [SEP] 15.11 [EOS] SOL:P
[EOS]
15.107319349411517
[SEP]
C
23
Z
8
U
1
H
6
R
9
G
26
D
5
I
3
Z
18
P
15
[BOS]
[BOS] 15 P 18 Z 3 I 5 D 26 G 9 R 6 H 1 U 8 Z 23 C [SEP] 15.11 [EOS] SOL:P
0.8
0.6
0.4
0.2


Attention weights at layer 1 head 0
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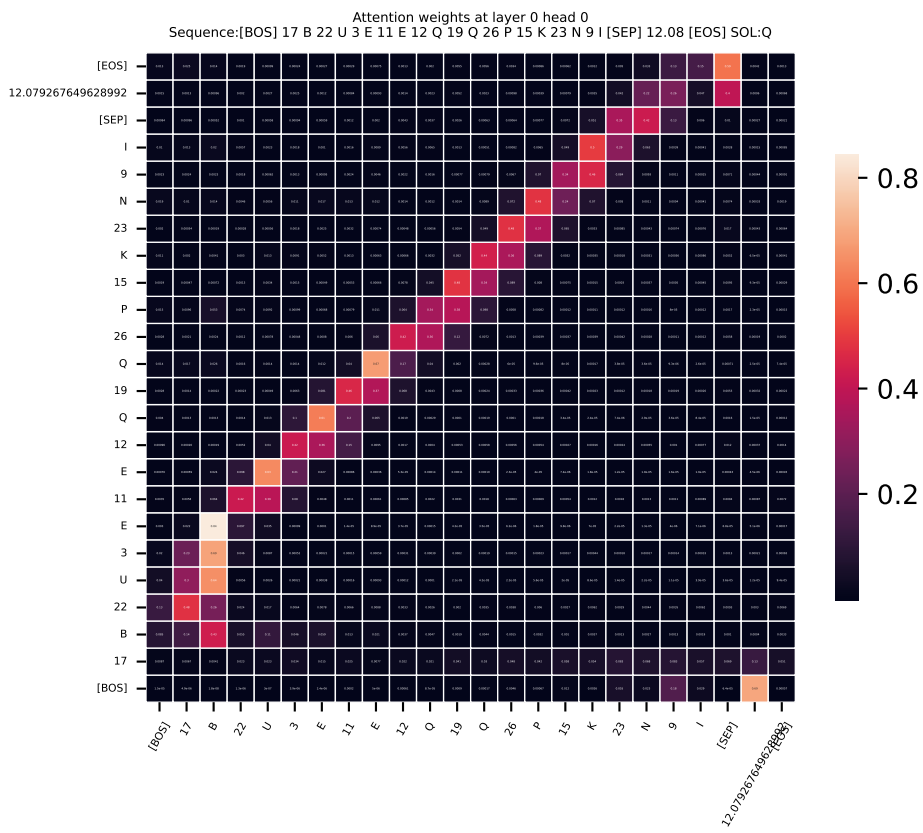
[EOS]
15.107319349411517
[SEP]
C
23
Z
8
U
1
H
6
R
9
G
26
D
5
I
3
Z
18
P
15
[BOS]
[BOS] 15 P 18 Z 3 I 5 D 26 G 9 R 6 H 1 U 8 Z 23 C [SEP] 15.11 [EOS] SOL:P
0.8
0.6
0.4
0.2


Attention weights at layer 0 head 0
Sequence:[BOS] 17 B 22 U 3 E 11 E 12 Q 19 Q 26 P 15 K 23 N 9 I [SEP] 12.08 [EOS] SOL:Q
[EOS]
12.079267649628992
[SEP]
I
9
N
23
K
15
P
26
Q
19
Q
12
E
11
E
3
U
22
B
17
[BOS]
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0.8
0.6
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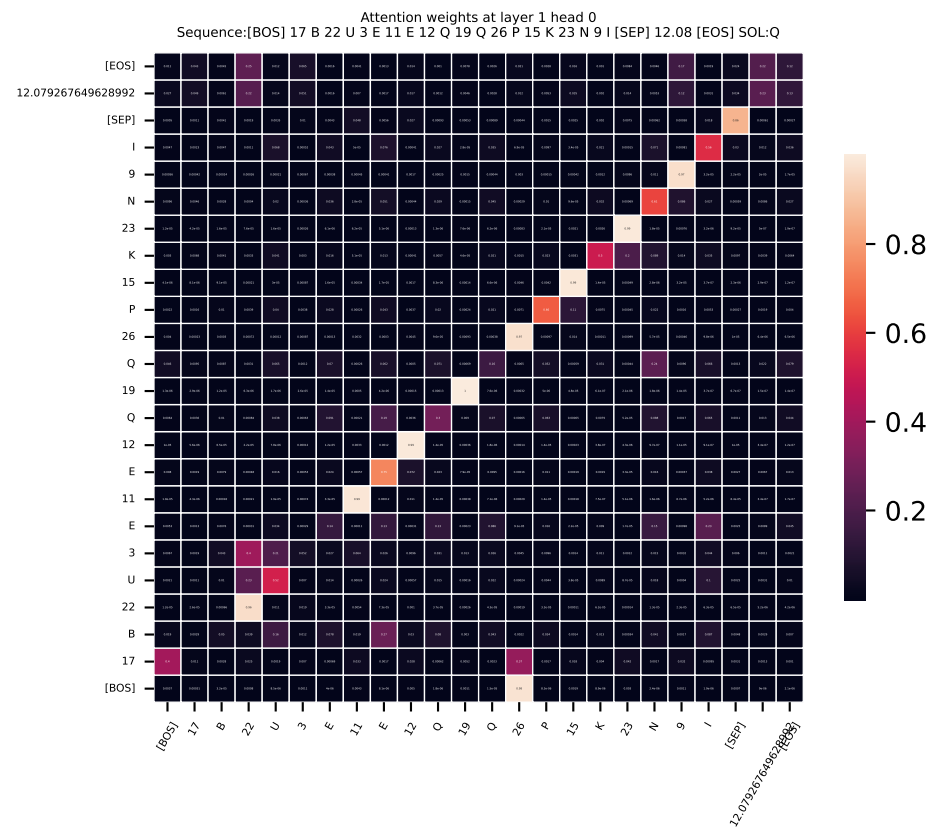
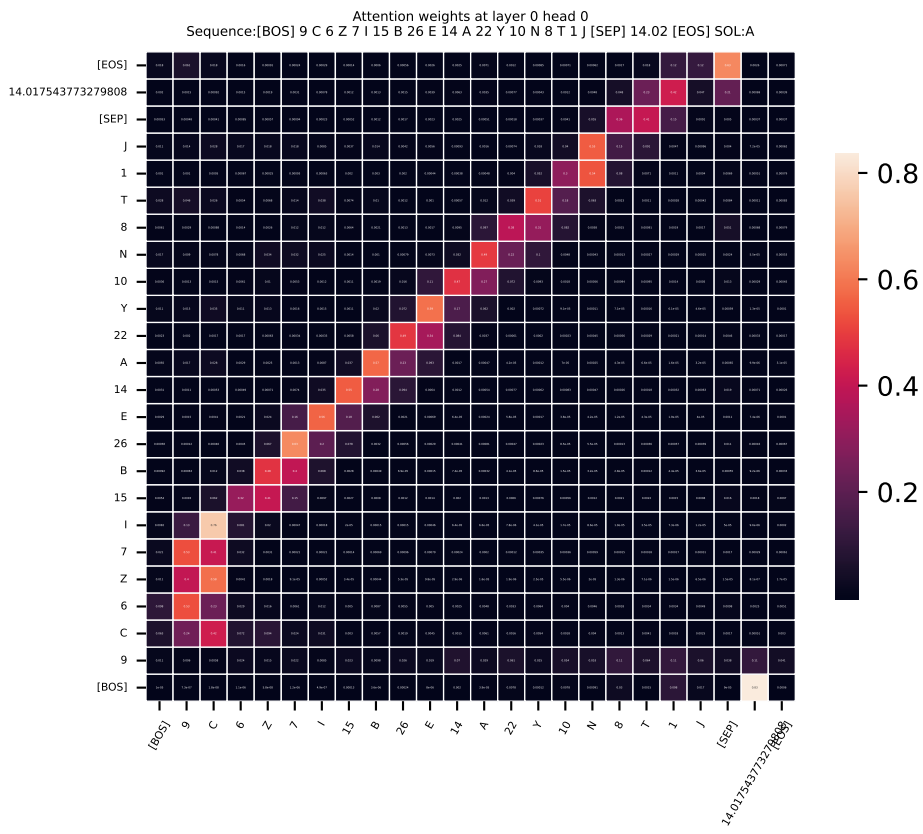

Attention weights at layer 1 head 0
Sequence:[BOS] 17 B 22 U 3 E 11 E 12 Q 19 Q 26 P 15 K 23 N 9 I [SEP] 12.08 [EOS] SOL:Q
[EOS]
12.079267649628992
[SEP]
I
9
N
23
K
15
P
26
Q
19
Q
12
E
11
E
3
U
22
B
17
[BOS]
[BOS] 17 B 22 U 3 E 11 E 12 Q 19 Q 26 P 15 K 23 N 9 I [SEP] 12.079267649628992 [EOS]
0.8
0.6
0.4
0.2


Attention weights at layer 0 head 0
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[EOS]
14.017543773279808
[SEP]
J
1
T
8
N
10
Y
22
A
14
E
26
B
15
I
7
Z
6
C
9
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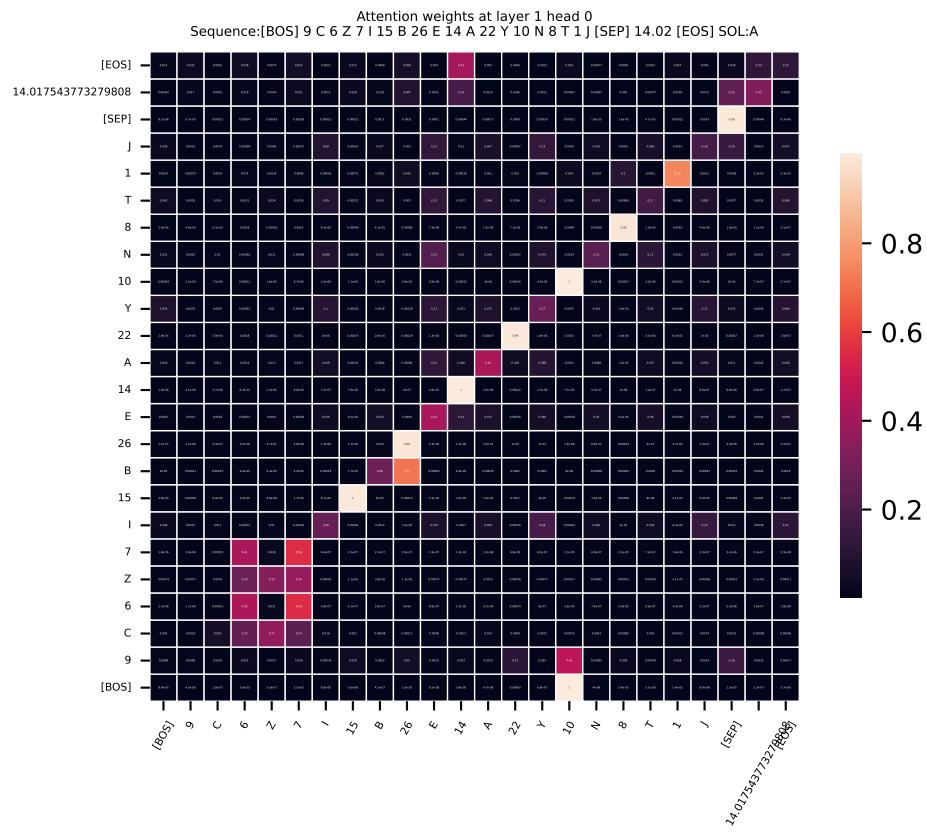
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[SEP]
J
1
T
8
N
10
Y
22
A
14
E
26
B
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I
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Z
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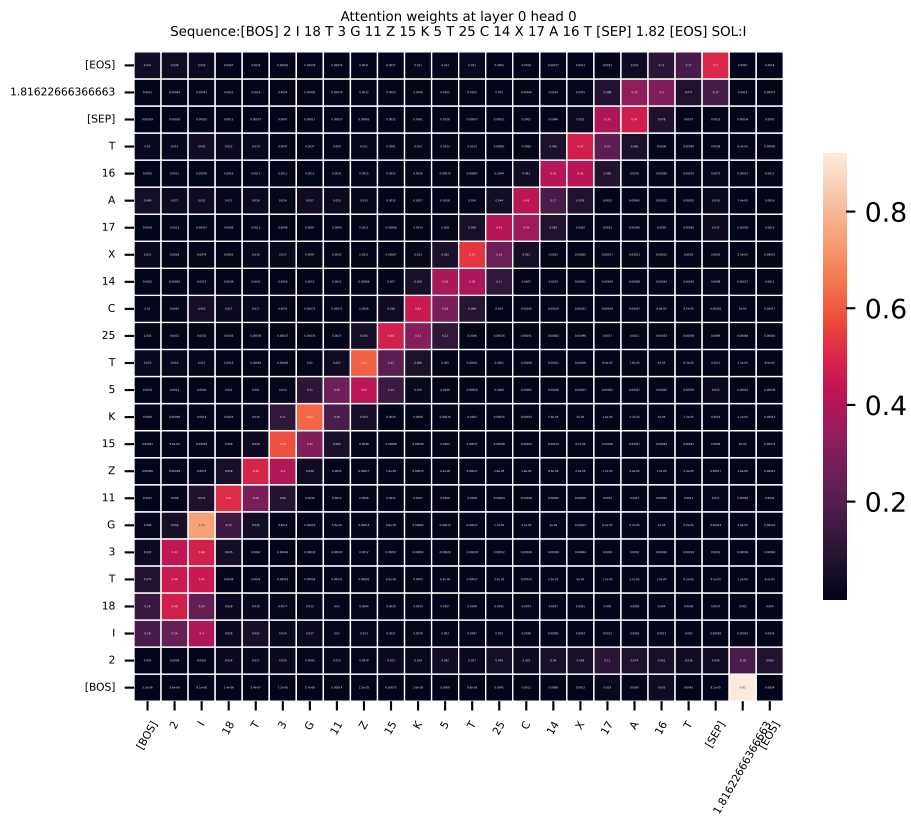
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[SEP]
T
16
A
17
X
14
C
25
T
5
K
15
Z
11
G
3
T
18
I
2
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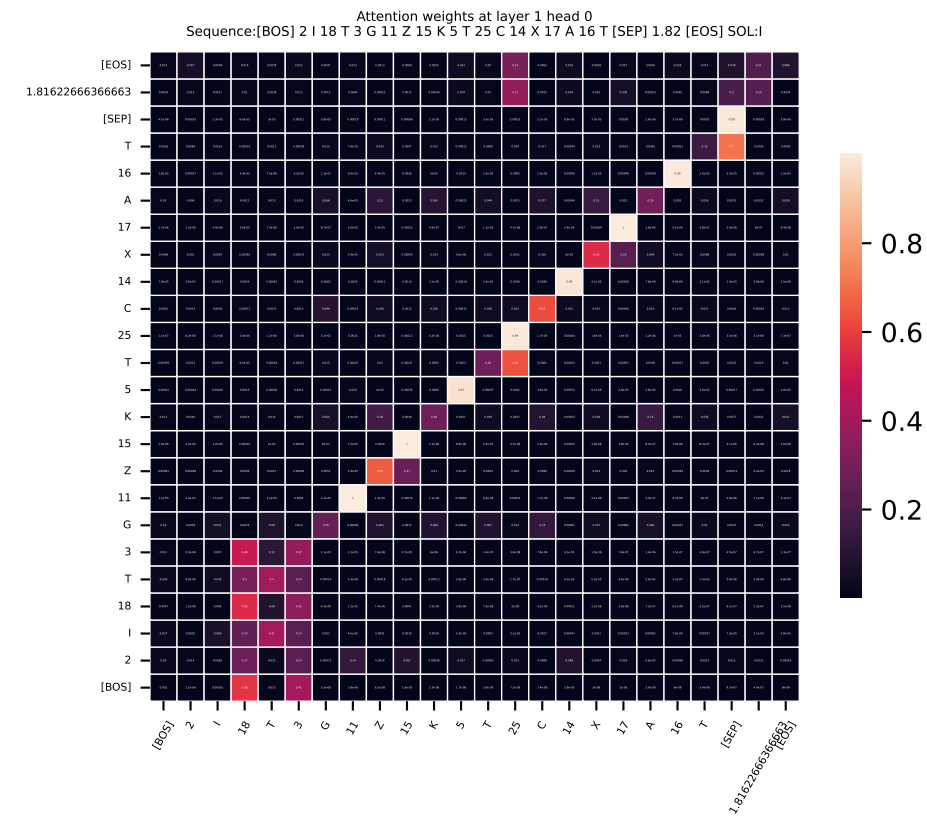
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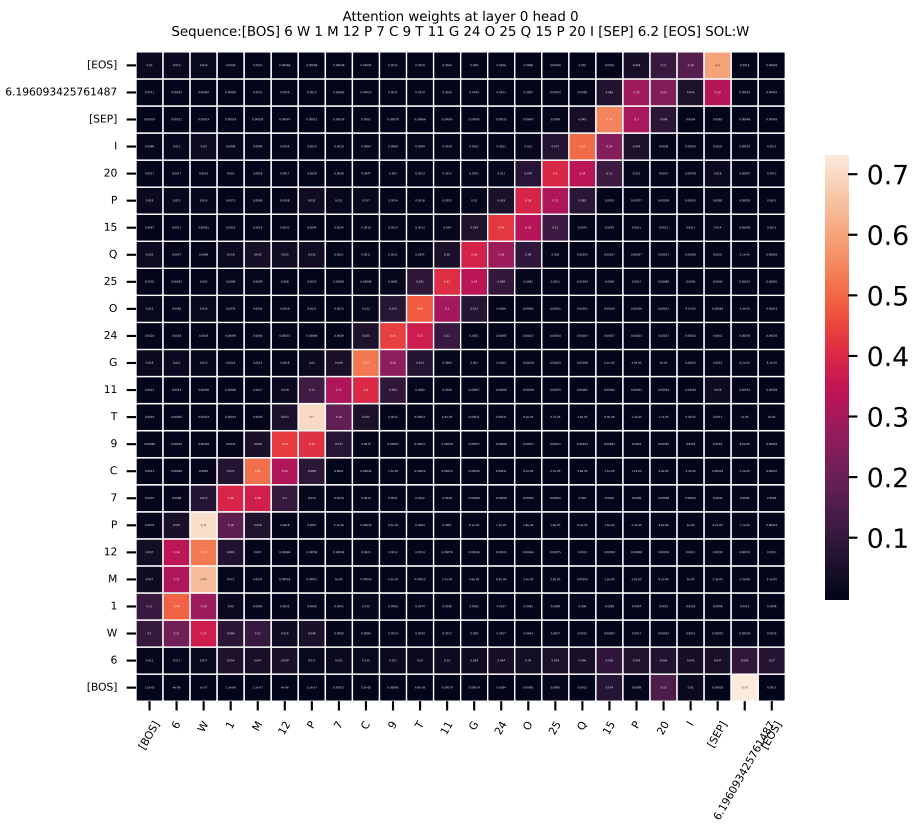
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[EOS]
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[SEP]
I
20
P
15
Q
25
O
24
G
11
T
9
C
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W
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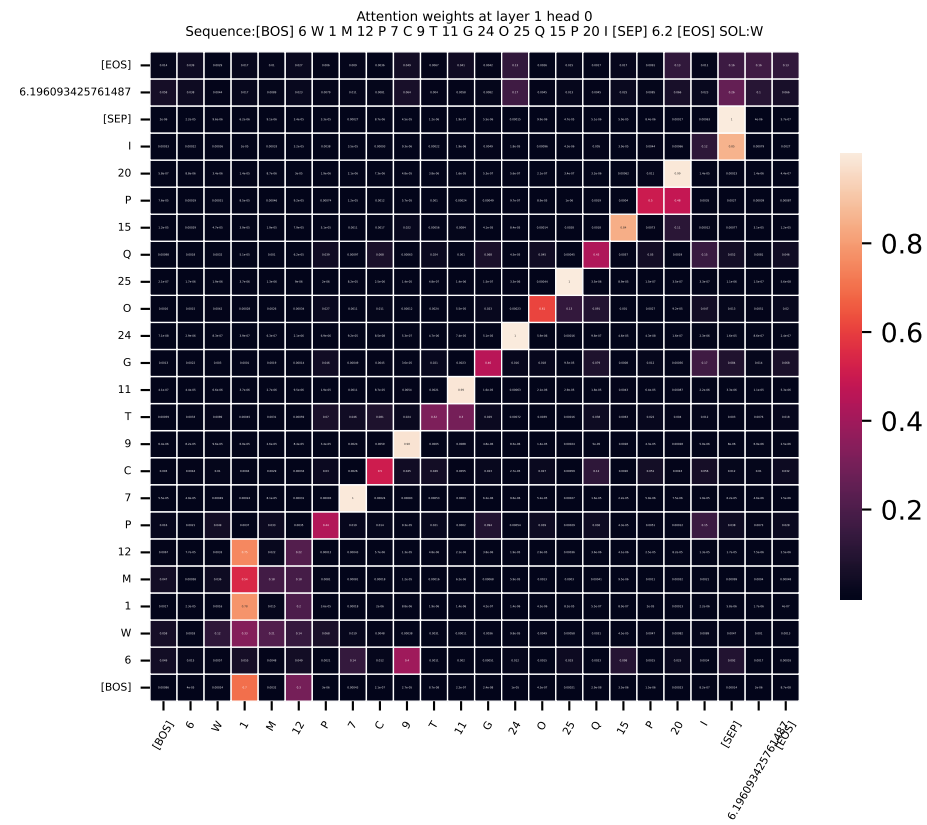
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[SEP]
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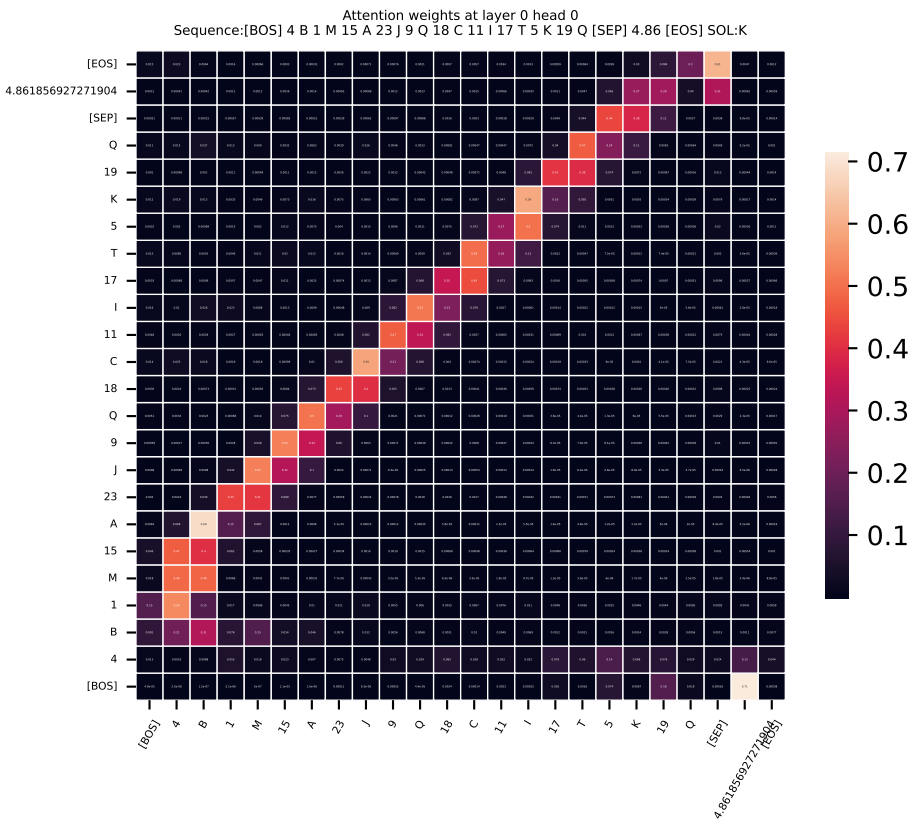
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[SEP]
Q
19
K
5
T
17
I
11
C
18
Q
9
J
23
A
15
M
1
B
4
[BOS]
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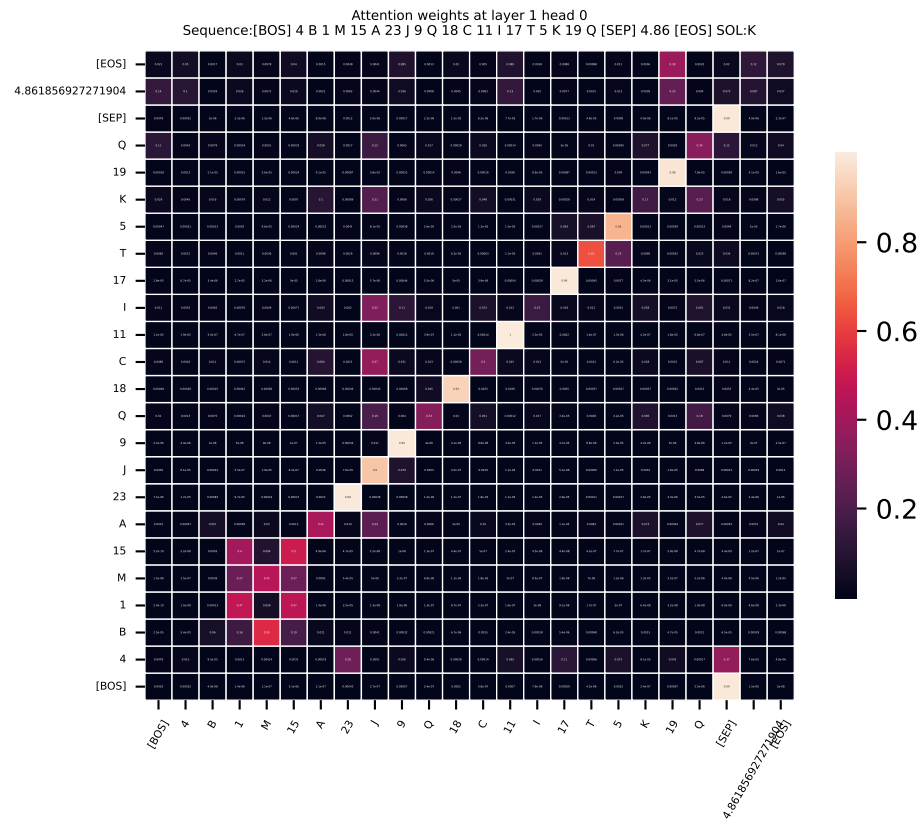
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K
5
T
17
I
11
C
18
Q
9
J
23
A
15
M
1
B
4
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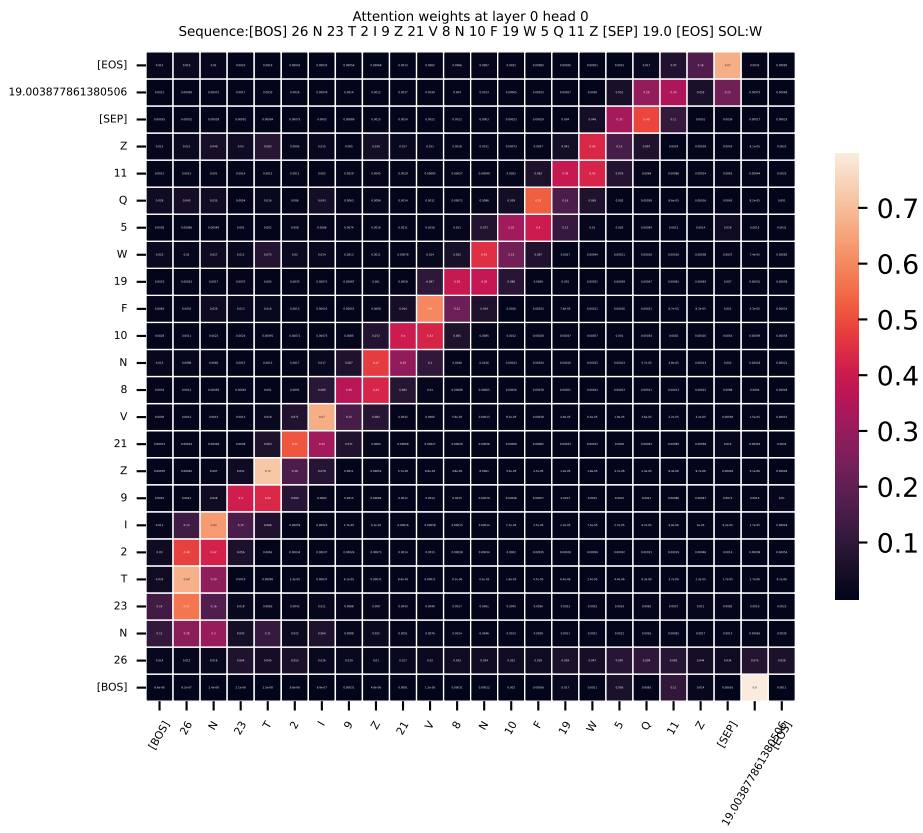
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[EOS]
19.003877861380506
[SEP]
Z
11
Q
5
W
19
F
10
N
8
V
21
Z
9
I
2
T
23
N
26
[BOS]
[BOS] 26 N 23 T 2 I 9 Z 21 V 8 N 10 F 19 W 5 Q 11 Z [SEP] 19.0 [EOS] SOL:W
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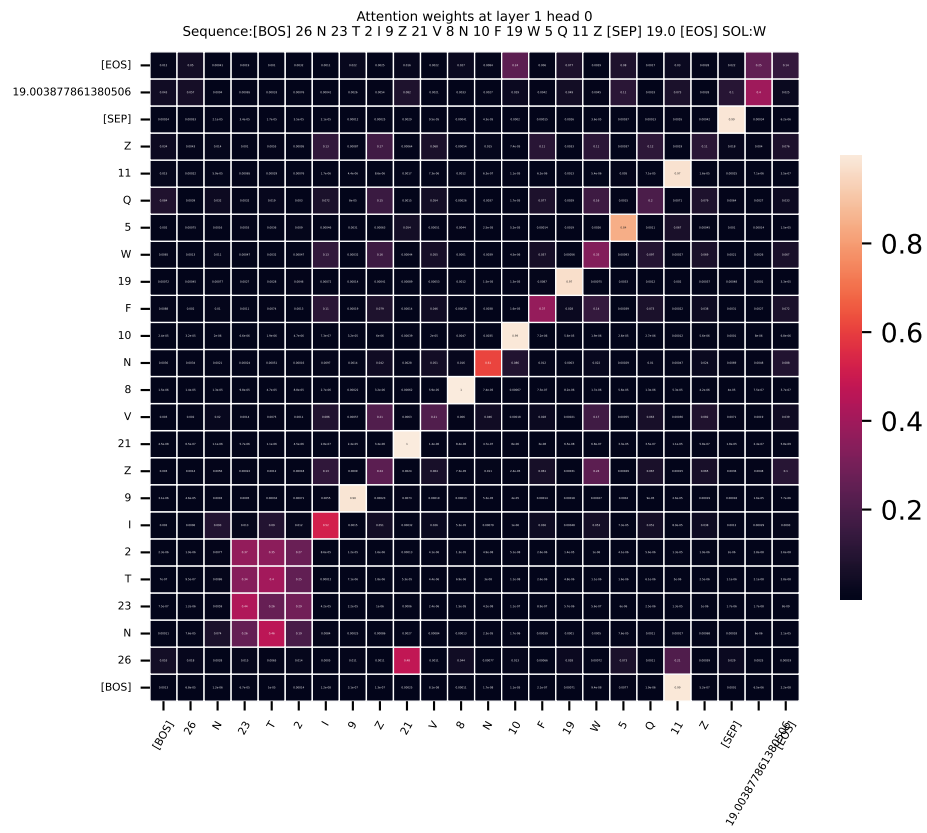
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[SEP]
Z
11
Q
5
W
19
F
10
N
8
V
21
Z
9
I
2
T
23
N
26
[BOS]
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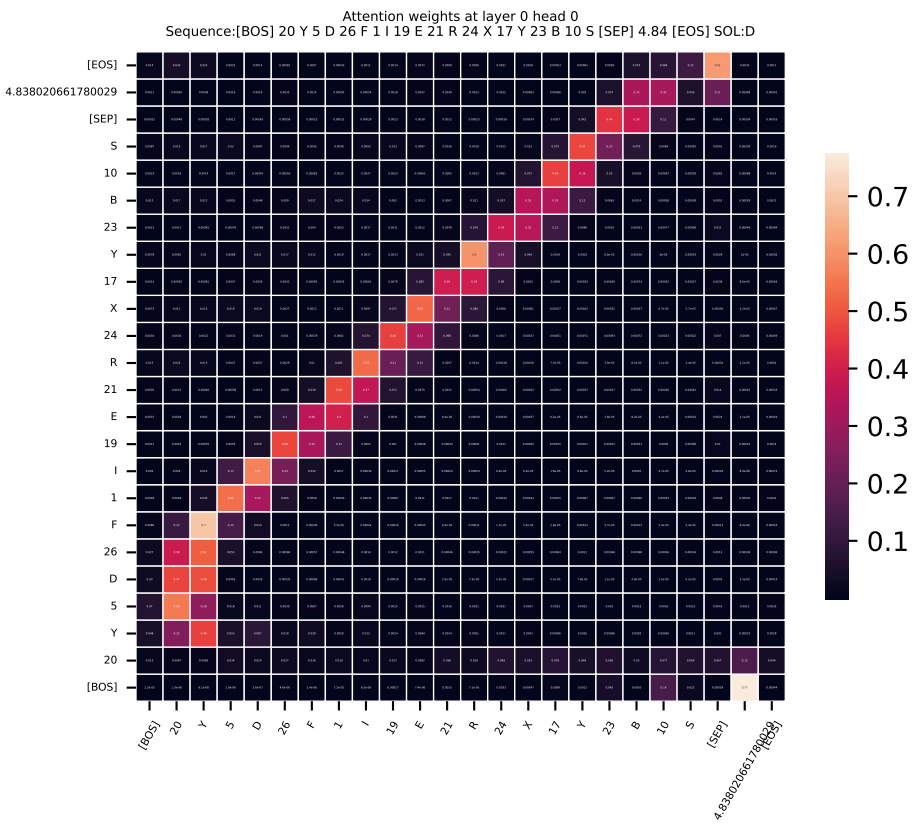
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[EOS]
4.838020661780029
[SEP]
S
10
B
23
Y
17
X
24
R
21
E
19
I
1
F
26
D
5
Y
20
[BOS]
[BOS] 20 Y 5 D 26 F 1 I 19 E 21 R 24 X 17 Y 23 B 10 S [SEP] 4.84 [EOS] [BOS]
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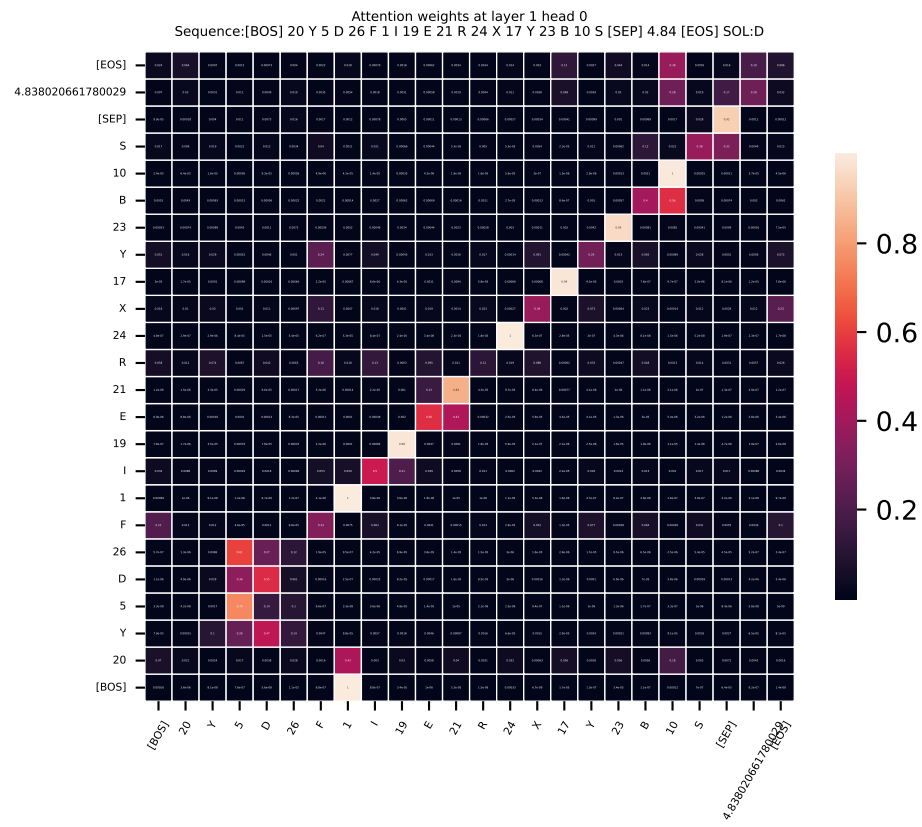
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[EOS]
4.838020661780029
[SEP]
S
10
B
23
Y
17
X
24
R
21
E
19
I
1
F
26
D
5
Y
20
[BOS]
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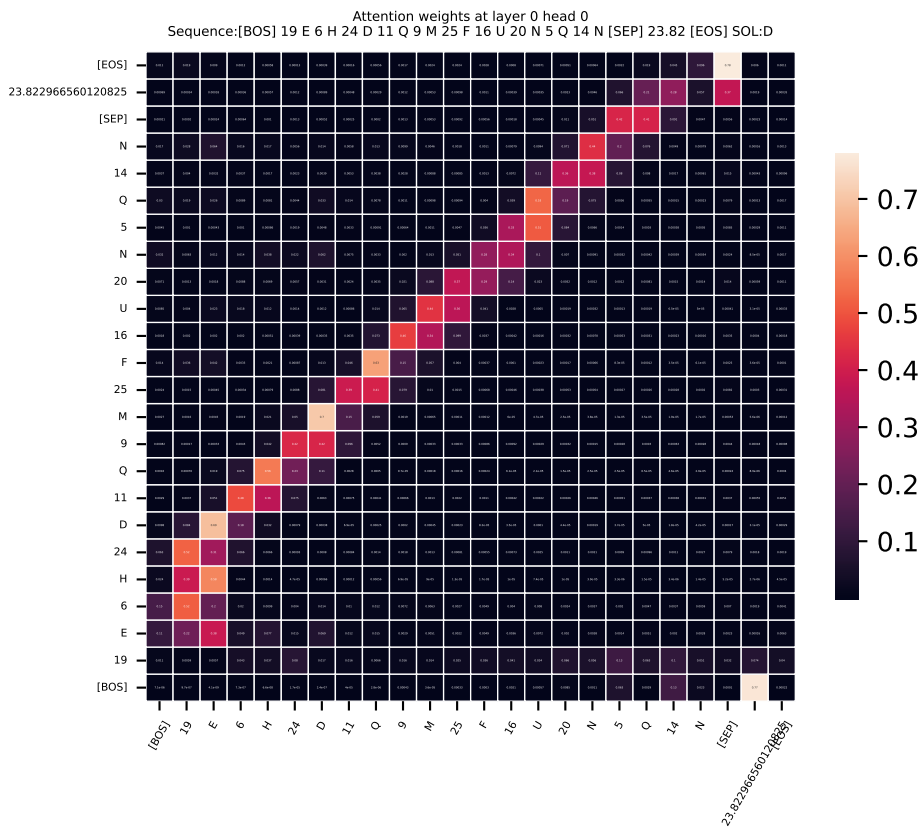
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[EOS]
23.822966560120825
[SEP]
N
14
Q
5
N
20
U
16
F
25
M
9
Q
11
D
24
H
6
E
19
[BOS]
[BOS] 19 E 6 H 24 D 11 Q 9 M 25 F 16 U 20 N 5 Q 14 N [SEP] 23.82 [EOS] SOL:D
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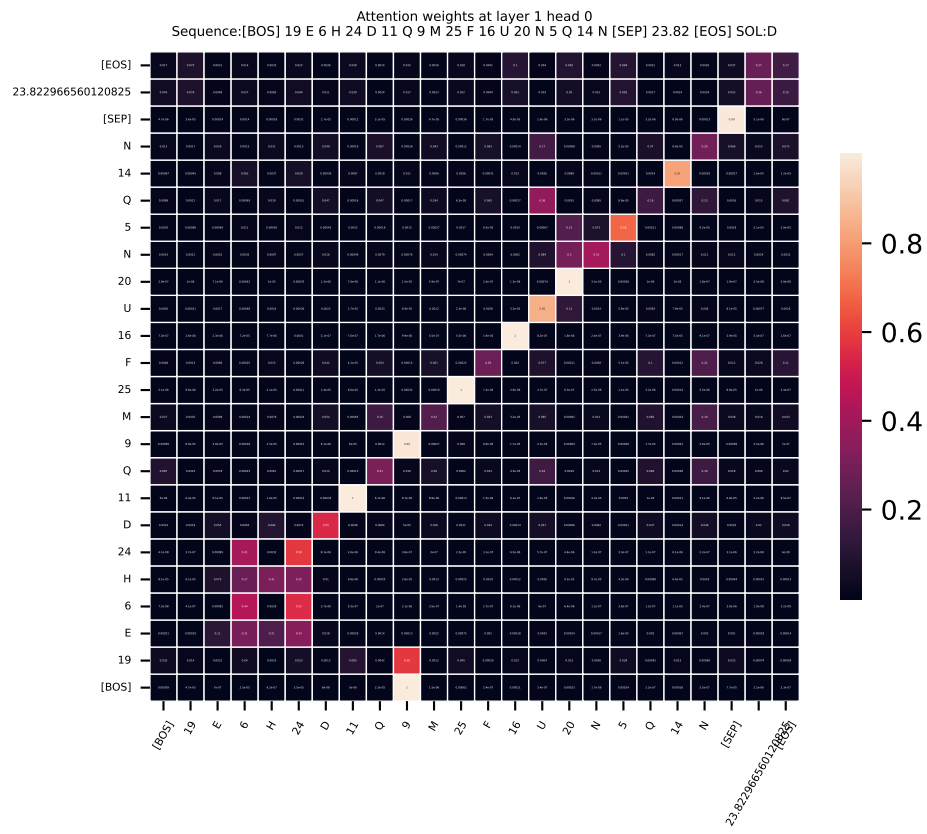
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[SEP]
N
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Q
5
N
20
U
16
F
25
M
9
Q
11
D
24
H
6
E
19
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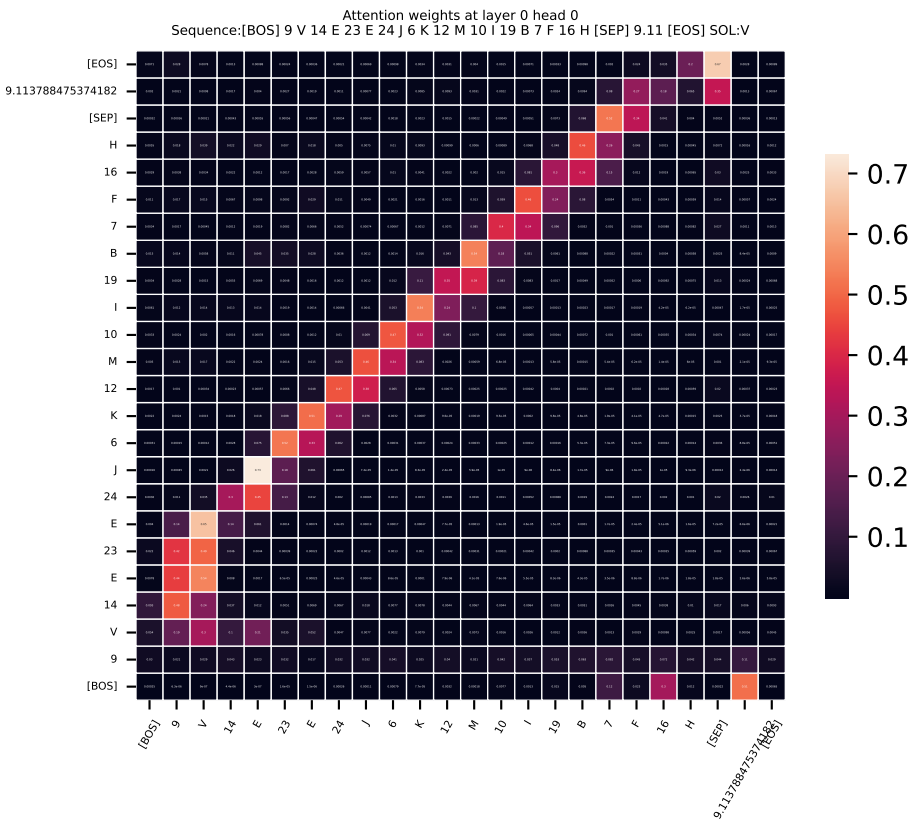
Attention weights at layer 0 head 0
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[EOS]
9.113788475374182
[SEP]
H
16
F
7
B
19
I
10
M
12
K
6
J
24
E
23
E
14
V
9
[BOS]
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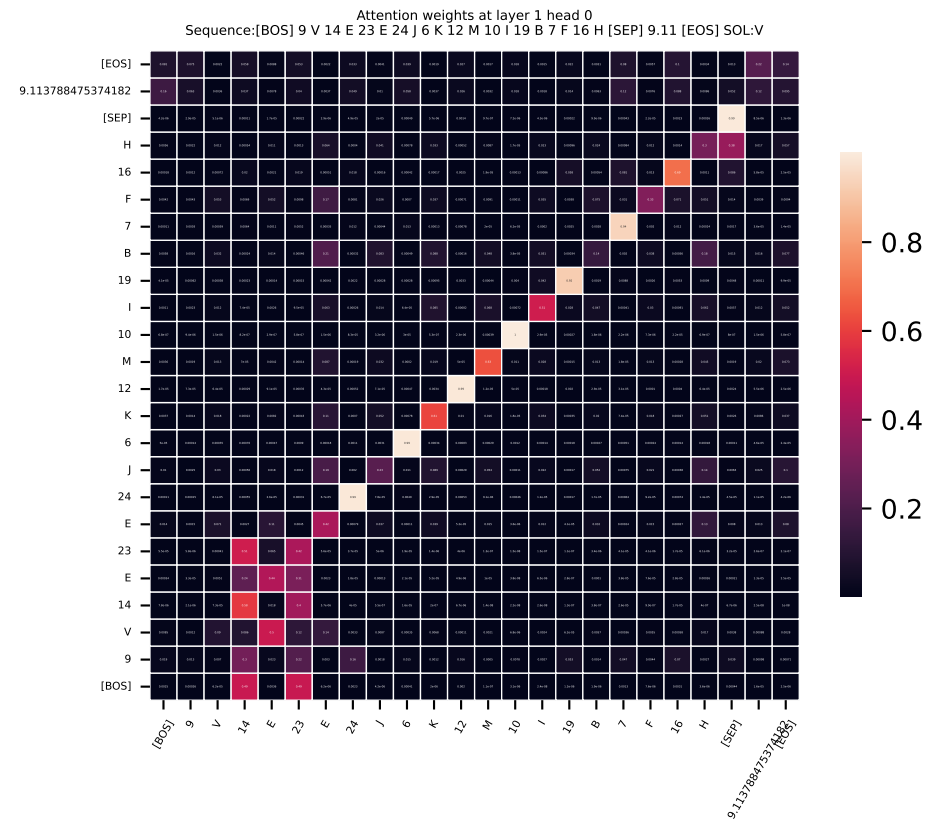
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[SEP]
H
16
F
7
B
19
I
10
M
12
K
6
J
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E
23
E
14
V
9
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0.4
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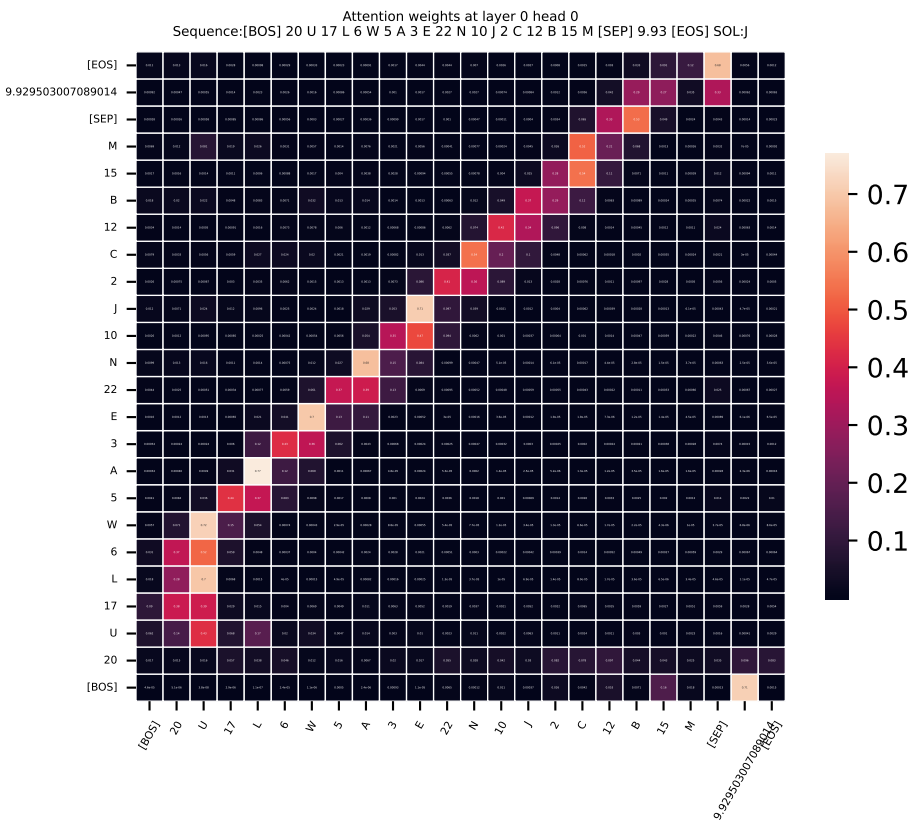
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[SEP]
M
15
B
12
C
2
J
10
N
22
E
3
A
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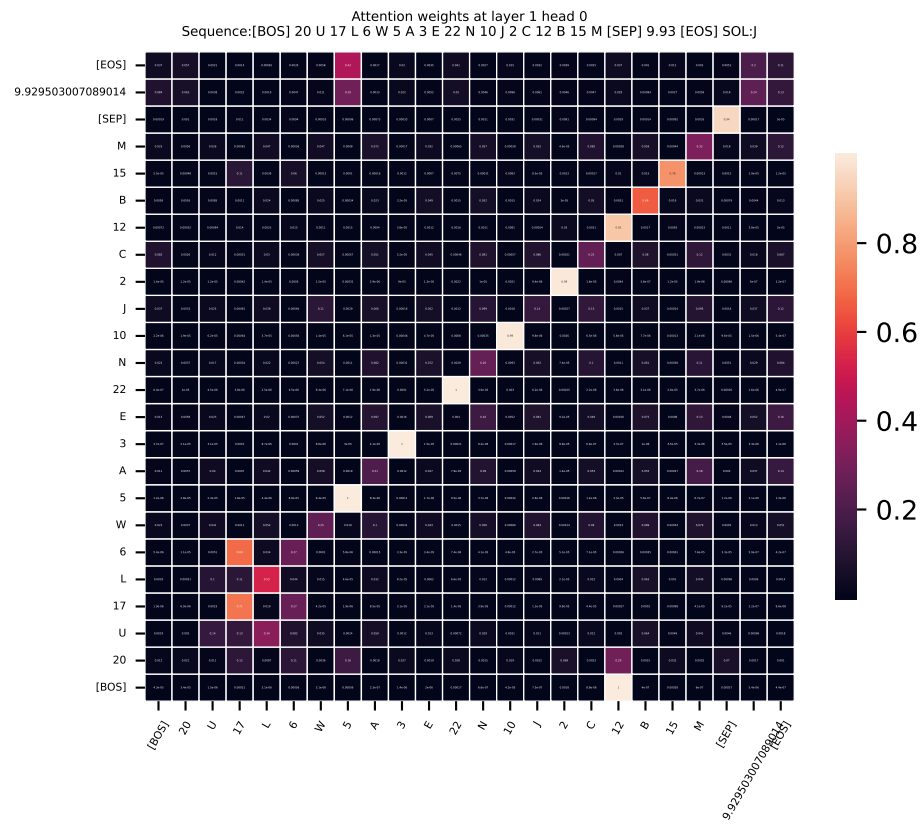
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J
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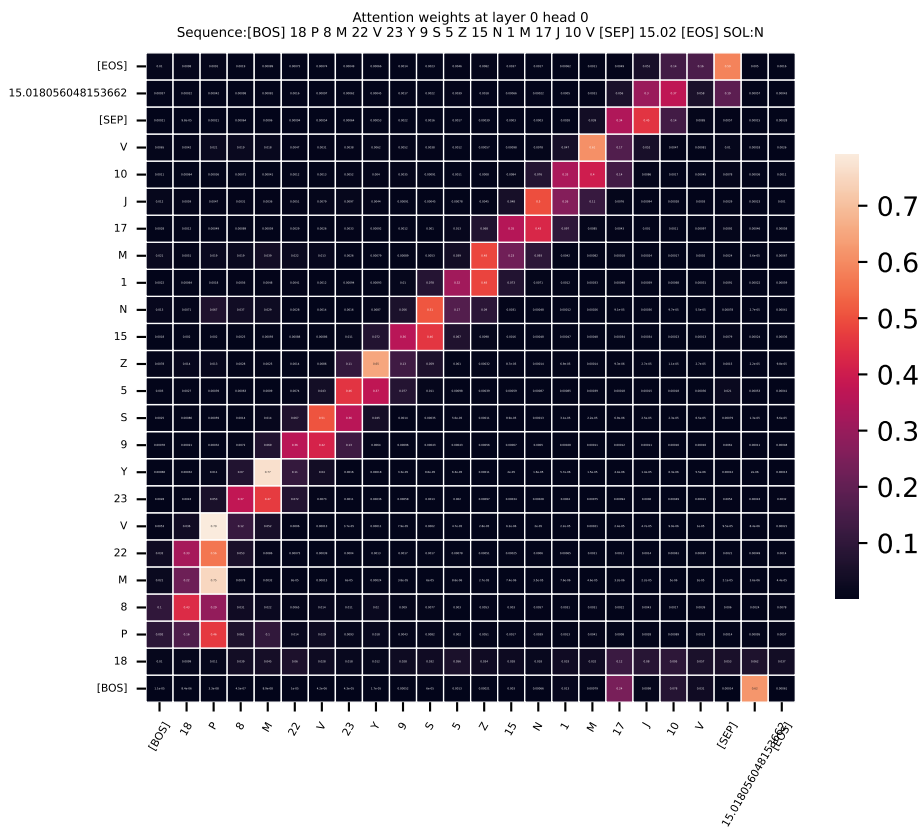
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[SEP]
V
10
J
17
M
1
N
15
Z
5
S
9
Y
23
V
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18
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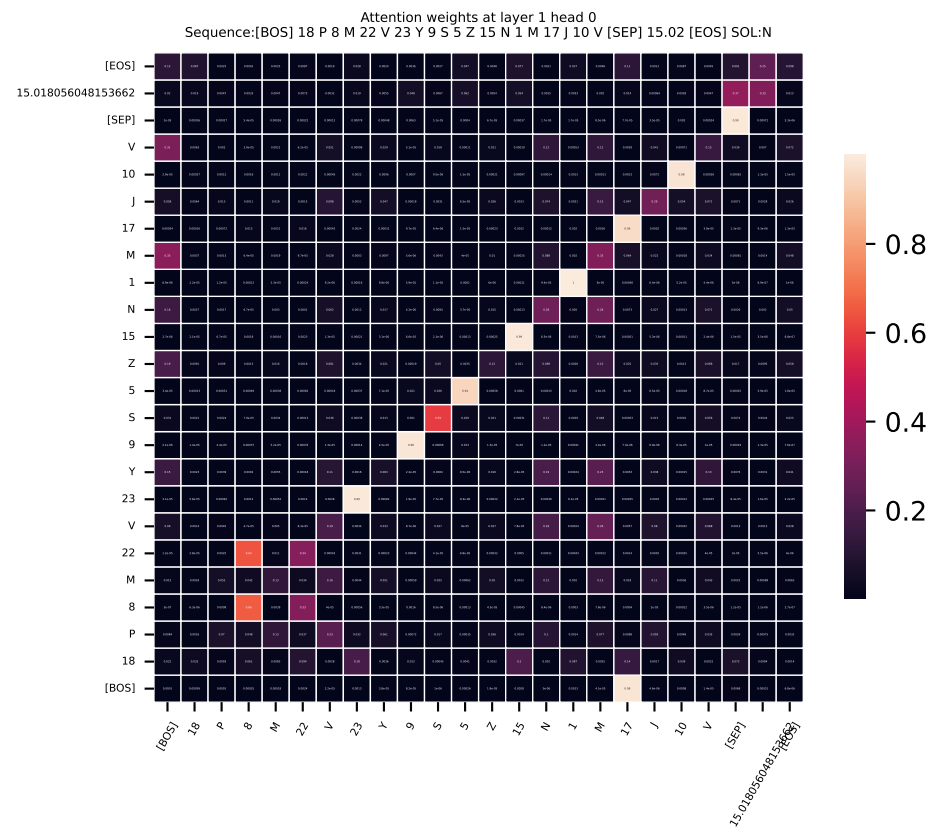
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Z
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S
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Y
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V
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P
18
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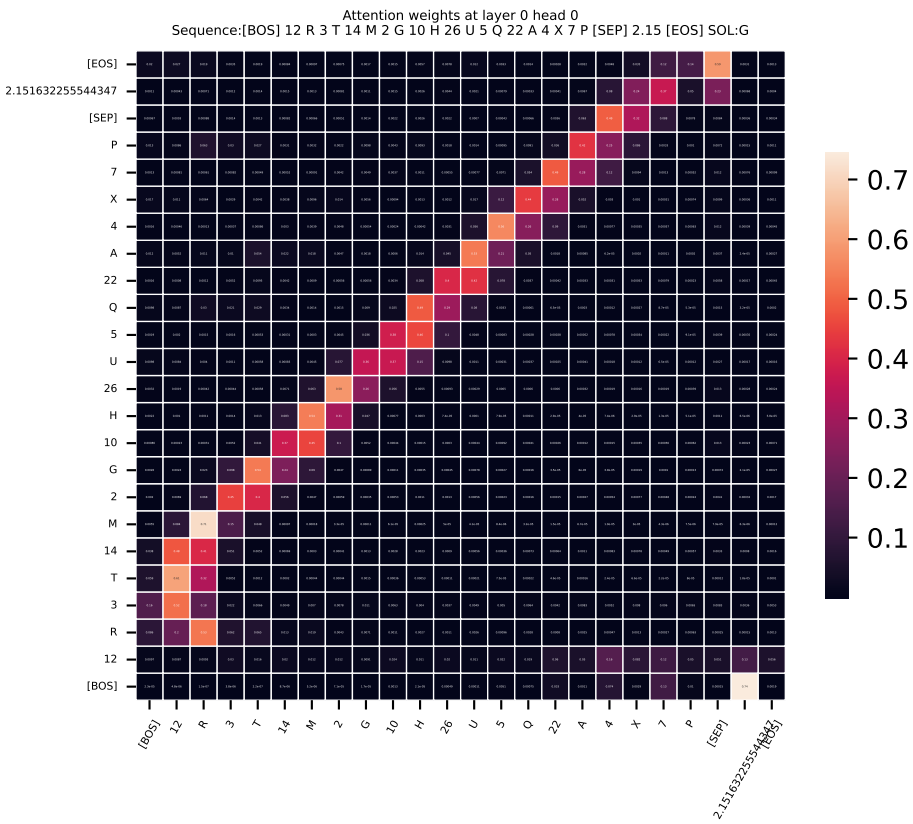
Attention weights at layer 0 head 0
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[SEP]
P
7
X
4
A
22
Q
5
U
26
H
10
G
2
M
14
T
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R
12
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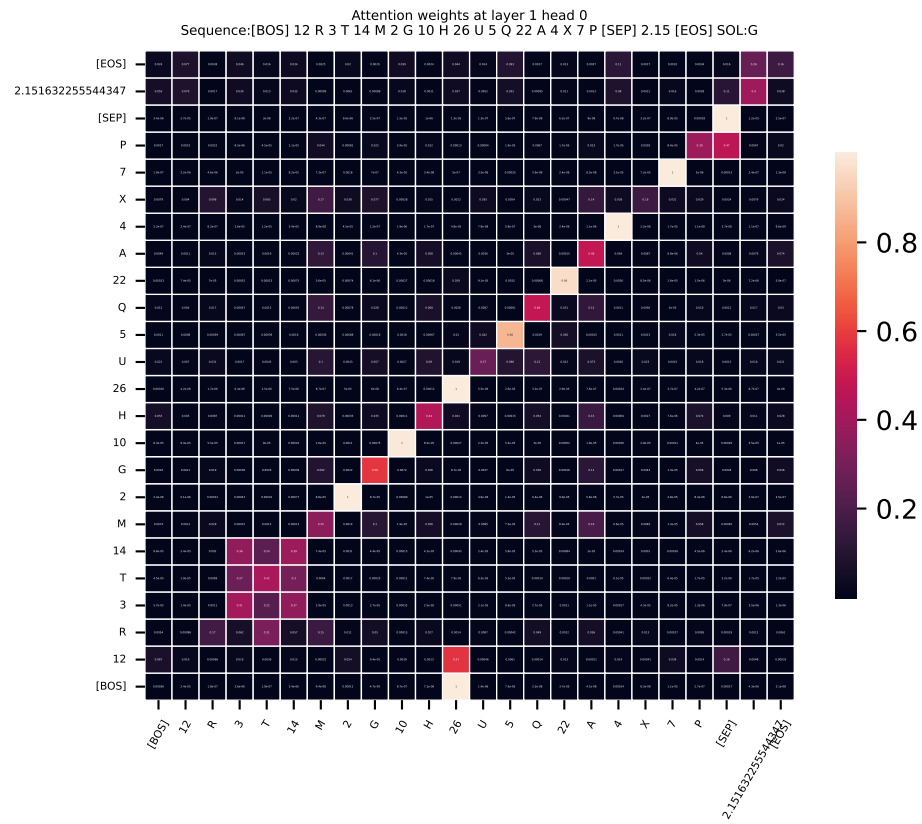
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[EOS]
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[SEP]
P
7
X
4
A
22
Q
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T
3
R
12
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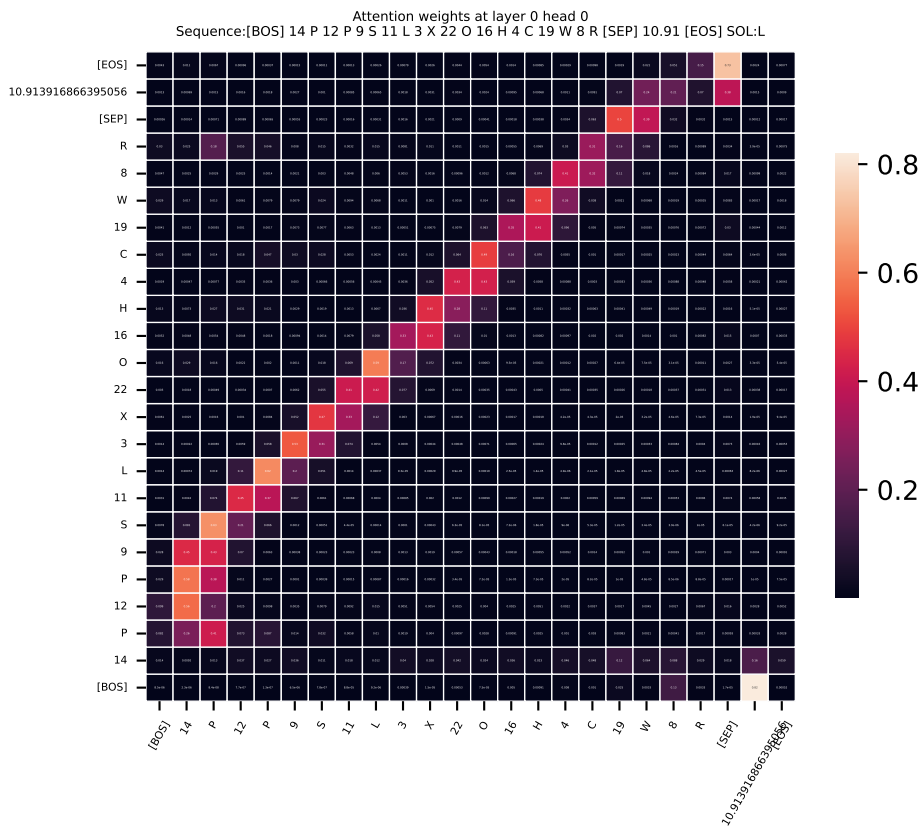
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[EOS]
10.913916866395056
[SEP]
R
8
W
19
C
4
H
16
O
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X
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L
11
S
9
P
12
P
14
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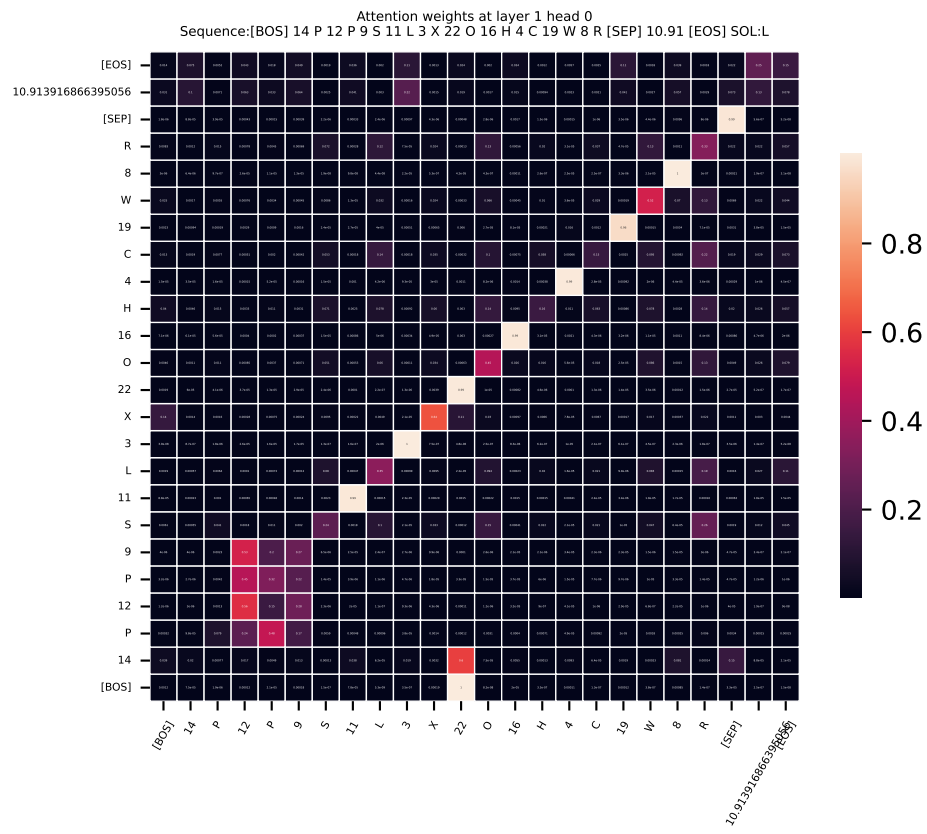
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[SEP]
R
8
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19
C
4
H
16
O
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L
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S
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P
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P
14
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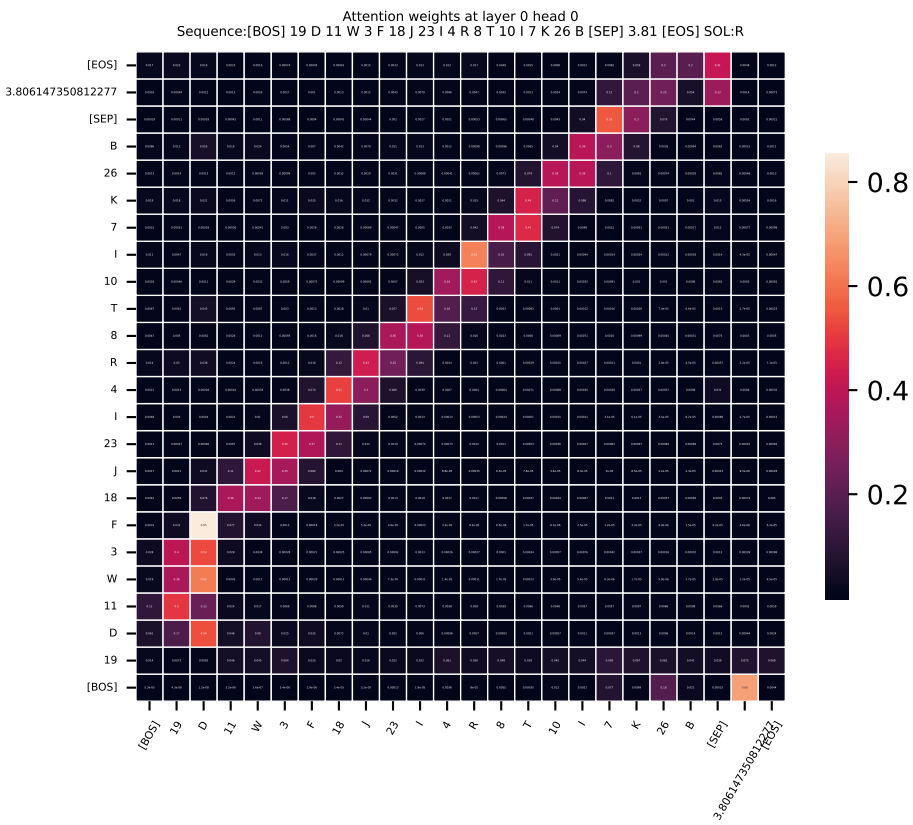
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[SEP]
B
26
K
7
I
10
T
8
R
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J
18
F
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W
11
D
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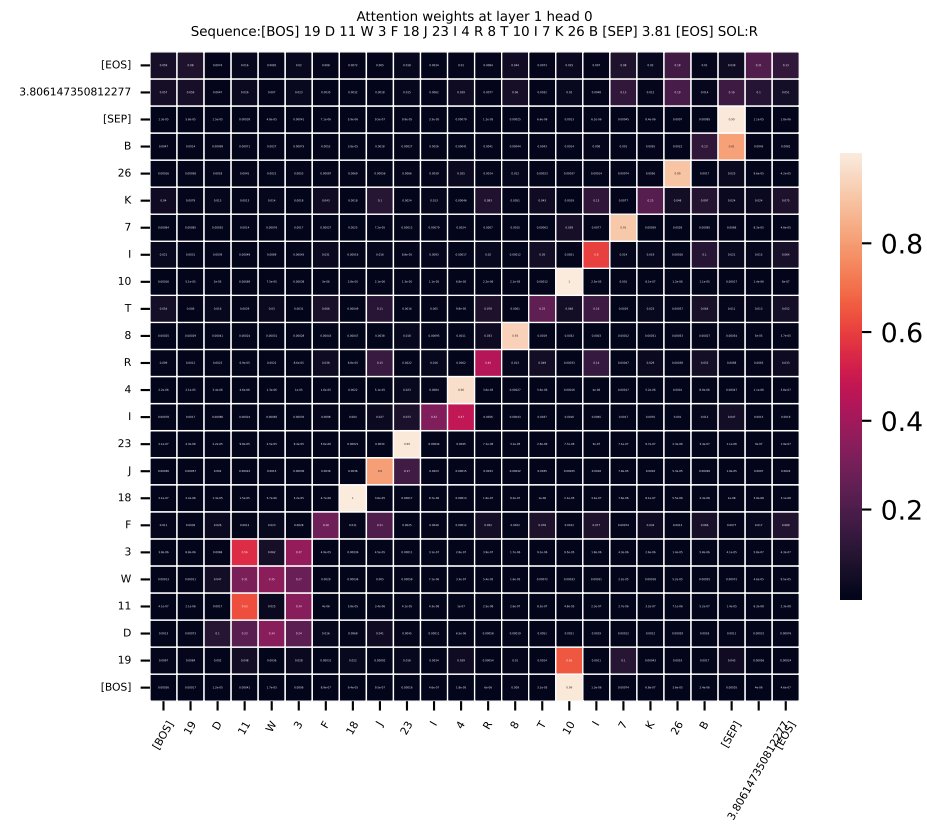
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[SEP]
B
26
K
7
I
10
T
8
R
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I
23
J
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F
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W
11
D
19
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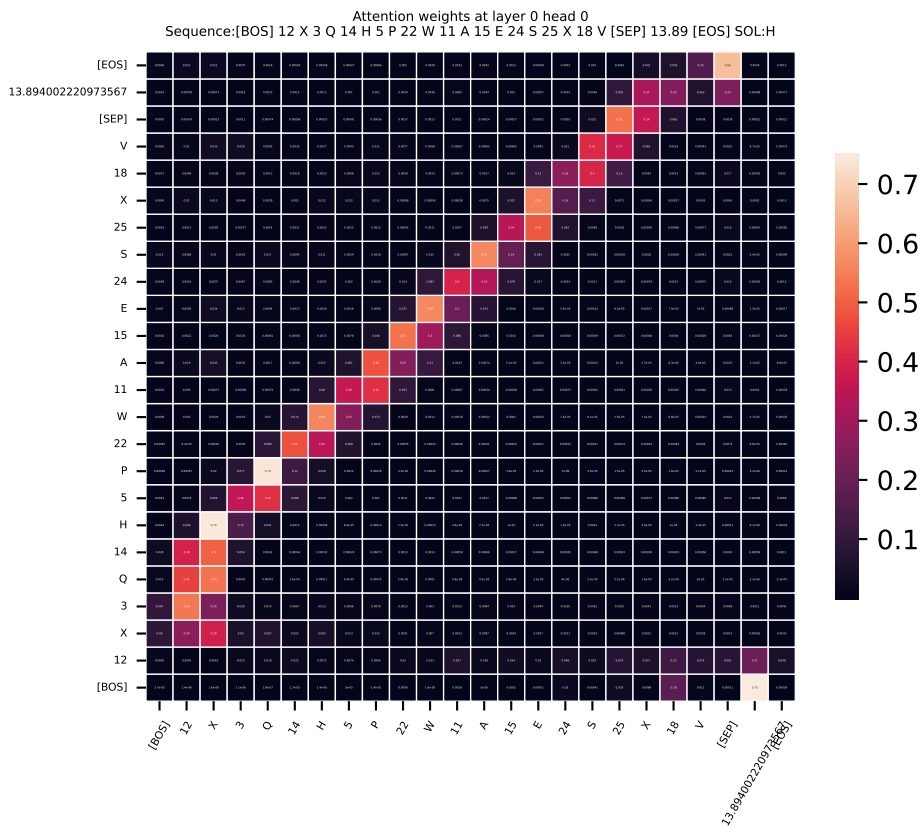
Attention weights at layer 0 head 0
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[EOS]
13.894002220973567
[SEP]
V
18
X
25
S
24
E
15
A
11
W
22
P
5
H
14
Q
3
X
12
[BOS]
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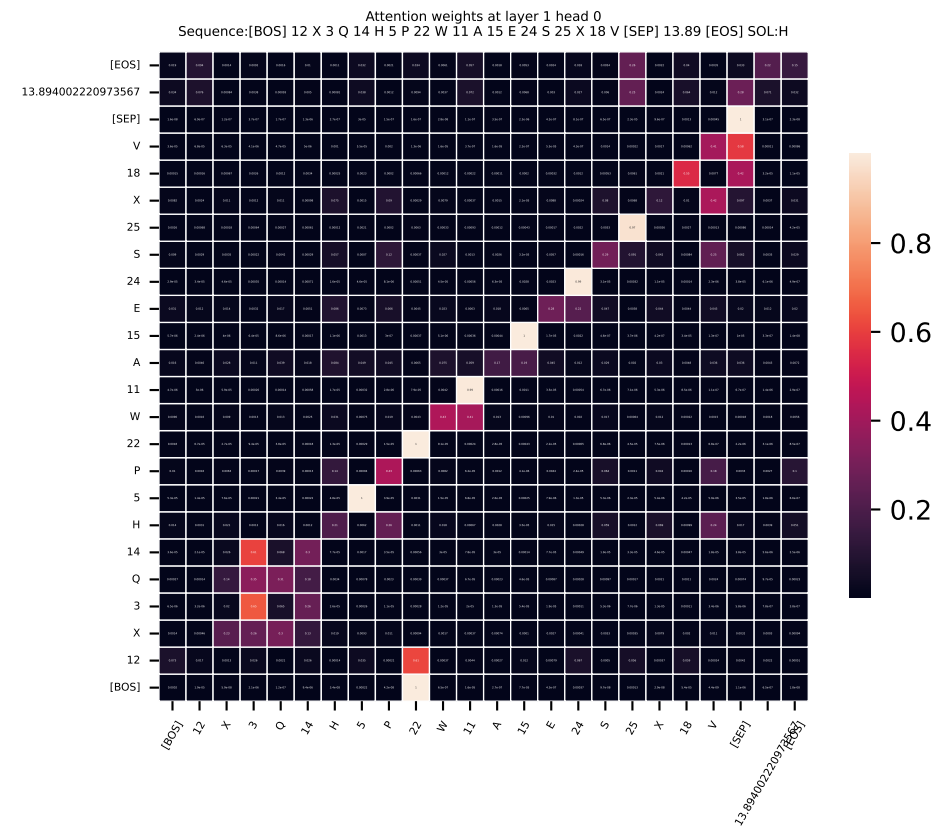
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[SEP]
V
18
X
25
S
24
E
15
A
11
W
22
P
5
H
14
Q
3
X
12
[BOS]
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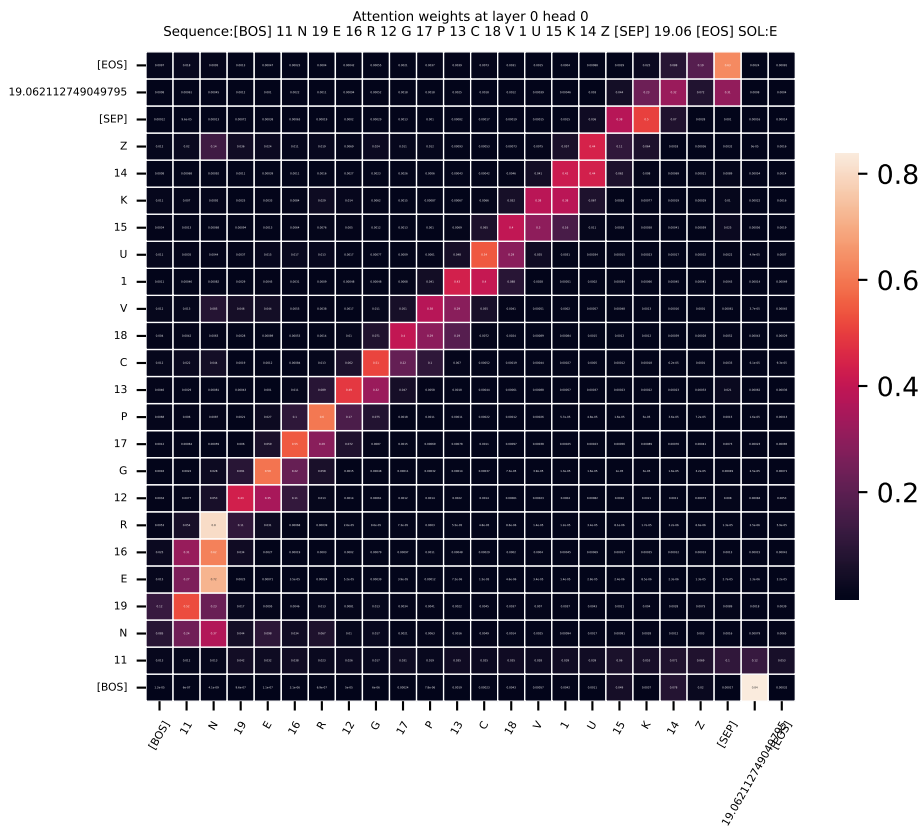
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[EOS]
19.062112749049795
[SEP]
Z
14
K
15
U
1
V
18
C
13
P
17
G
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E
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N
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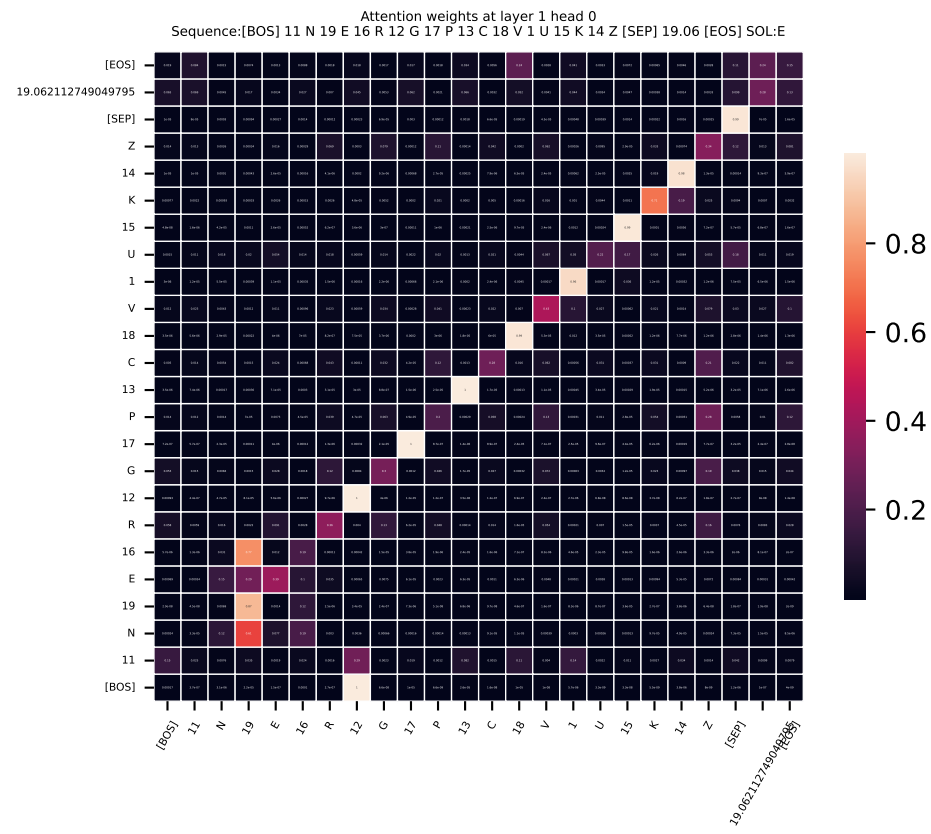
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Z
14
K
15
U
1
V
18
C
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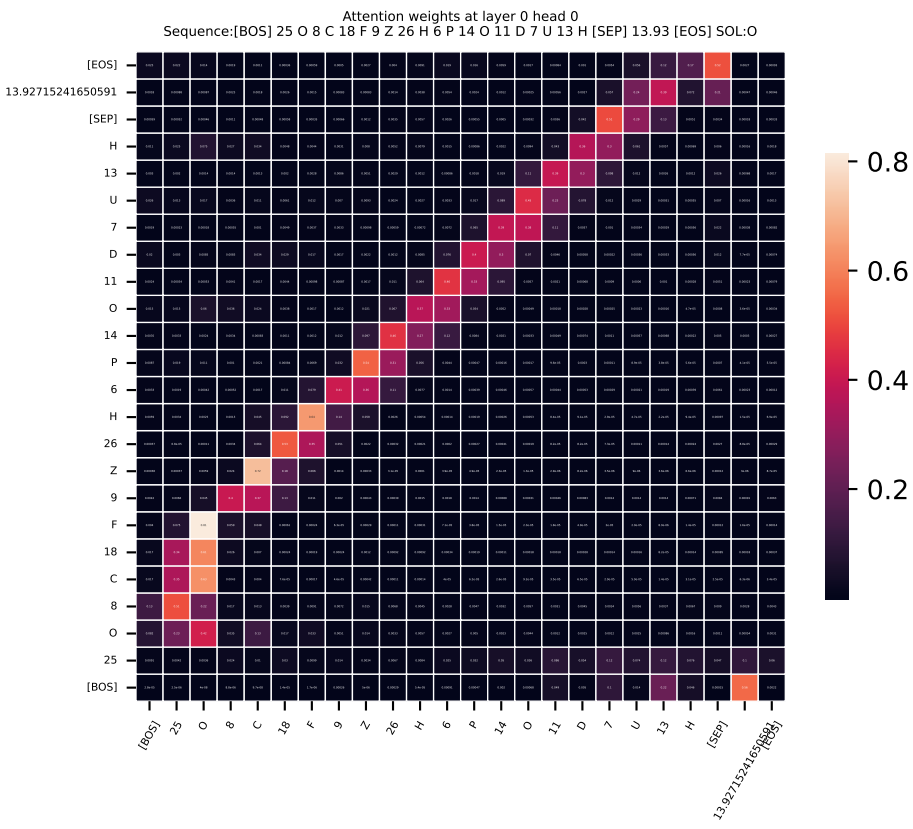
Attention weights at layer 0 head 0
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[EOS]
13.92715241650591
[SEP]
H
13
U
7
D
11
O
14
P
6
H
26
Z
9
F
18
C
8
O
25
[BOS]
[BOS] 25 O 8 C 18 F 9 Z 26 H 6 P 14 O 11 D 7 U 13 H [SEP] 13.93 [EOS] SOL:O
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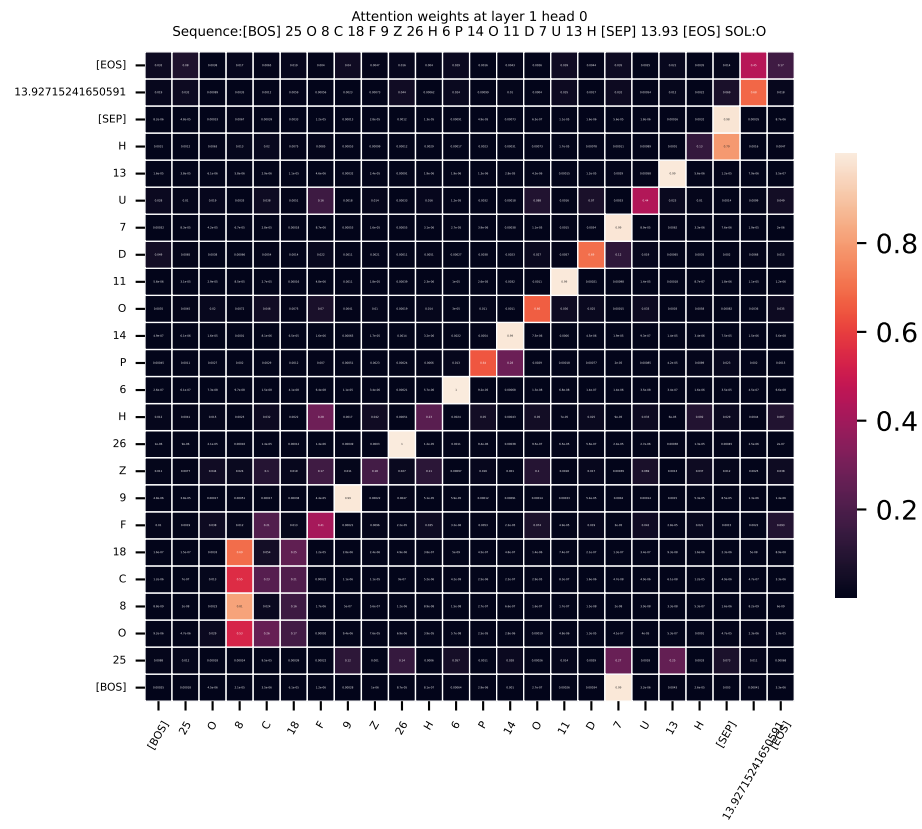
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[EOS]
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[SEP]
H
13
U
7
D
11
O
14
P
6
H
26
Z
9
F
18
C
8
O
25
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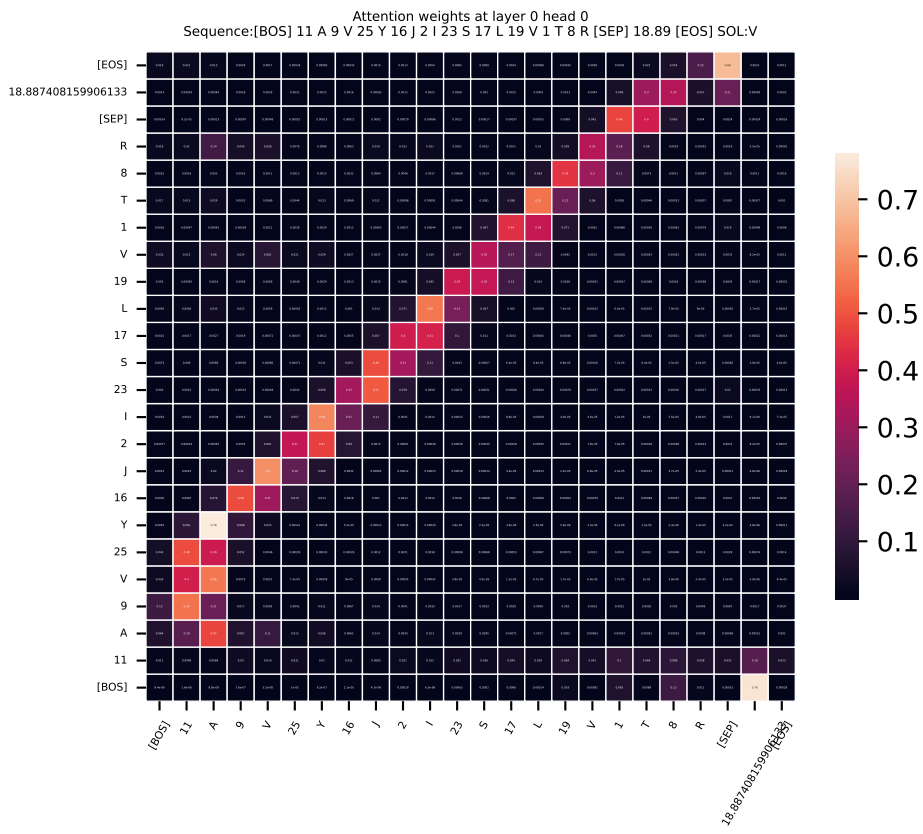
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[EOS]
18.887408159906133
[SEP]
R
8
T
1
V
19
L
17
S
23
I
2
J
16
Y
25
V
9
A
11
[BOS]
[BOS] 11 A 9 V 25 Y 16 J 2 I 23 S 17 L 19 V 1 T 8 R [SEP] 18.887408159906133 [EOS]
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0.6
0.5
0.4
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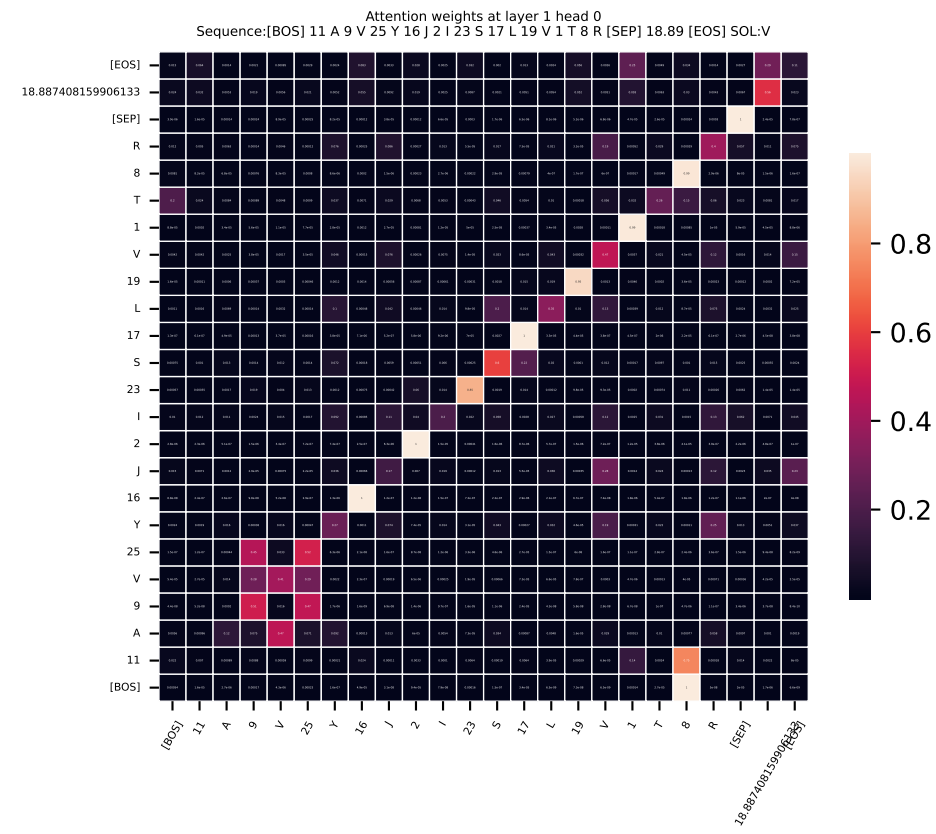
0.2
0.1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[EOS]
18.887408159906133
[SEP]
R
8
T
1
V
19
L
17
S
23
I
2
J
16
Y
25
V
9
A
11
[BOS]
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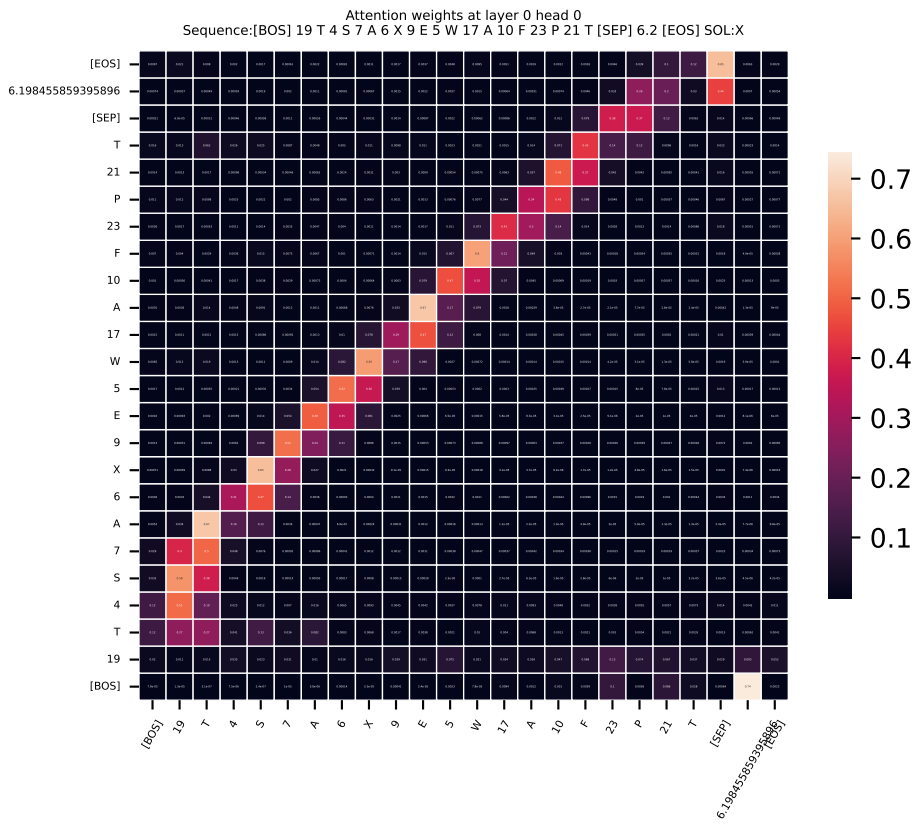
Attention weights at layer 0 head 0
Sequence:[BOS] 19 T 4 S 7 A 6 X 9 E 5 W 17 A 10 F 23 P 21 T [SEP] 6.2 [EOS] SOL:X
[EOS]
6.198455859395896
[SEP]
T
21
P
23
F
10
A
17
W
5
E
9
X
6
A
7
S
4
T
19
[BOS]
[BOS] 19 T 4 S 7 A 6 X 9 E 5 W 17 A 10 F 23 P 21 T [SEP] 6.2 [EOS]
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0.6
0.5
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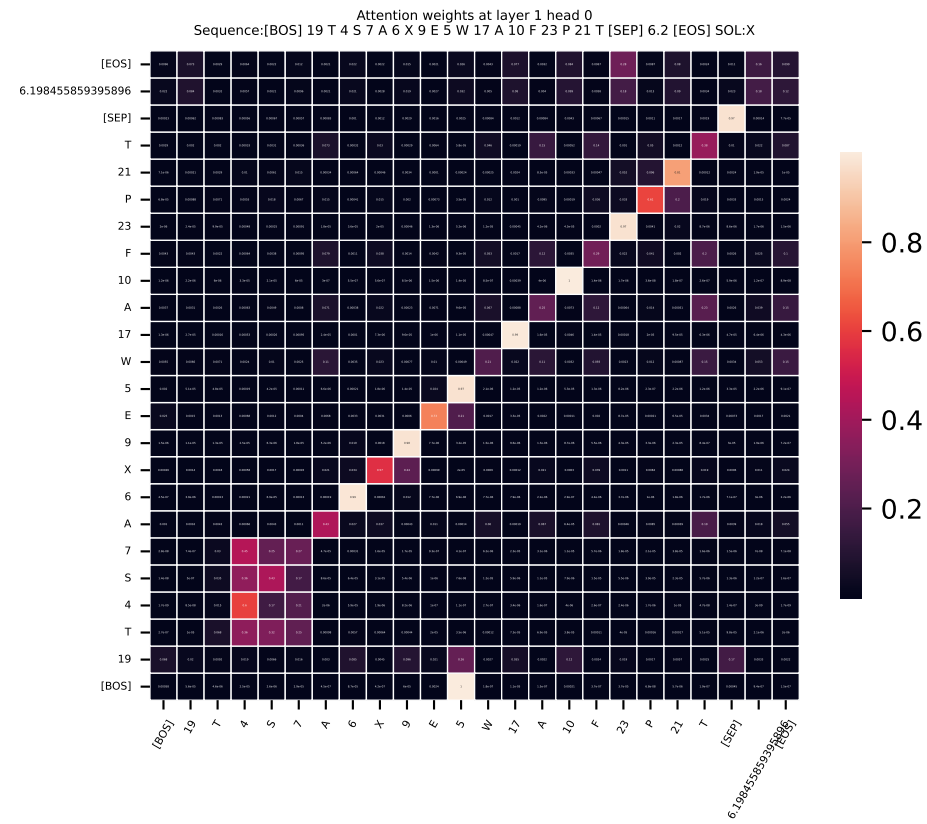
0.2
0.1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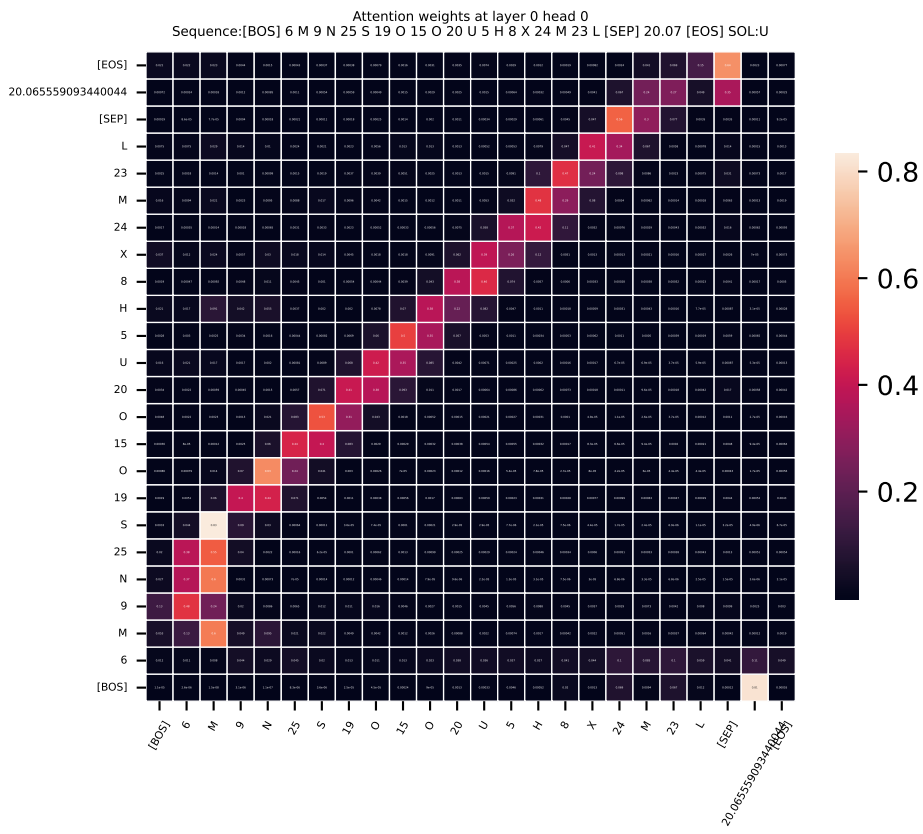
[EOS]
6.198455859395896
[SEP]
T
21
P
23
F
10
A
17
W
5
E
9
X
6
A
7
S
4
T
19
[BOS]
[BOS] 19 T 4 S 7 A 6 X 9 E 5 W 17 A 10 F 23 P 21 T [SEP] 6.2 [EOS]
0.8
0.6
0.4
0.2


Attention weights at layer 0 head 0
Sequence:[BOS] 6 M 9 N 25 S 19 O 15 O 20 U 5 H 8 X 24 M 23 L [SEP] 20.07 [EOS] SOL:U
[EOS]
20.065559093440044
[SEP]
L
23
M
24
X
8
H
5
U
20
O
15
O
19
S
25
N
9
M
6
[BOS]
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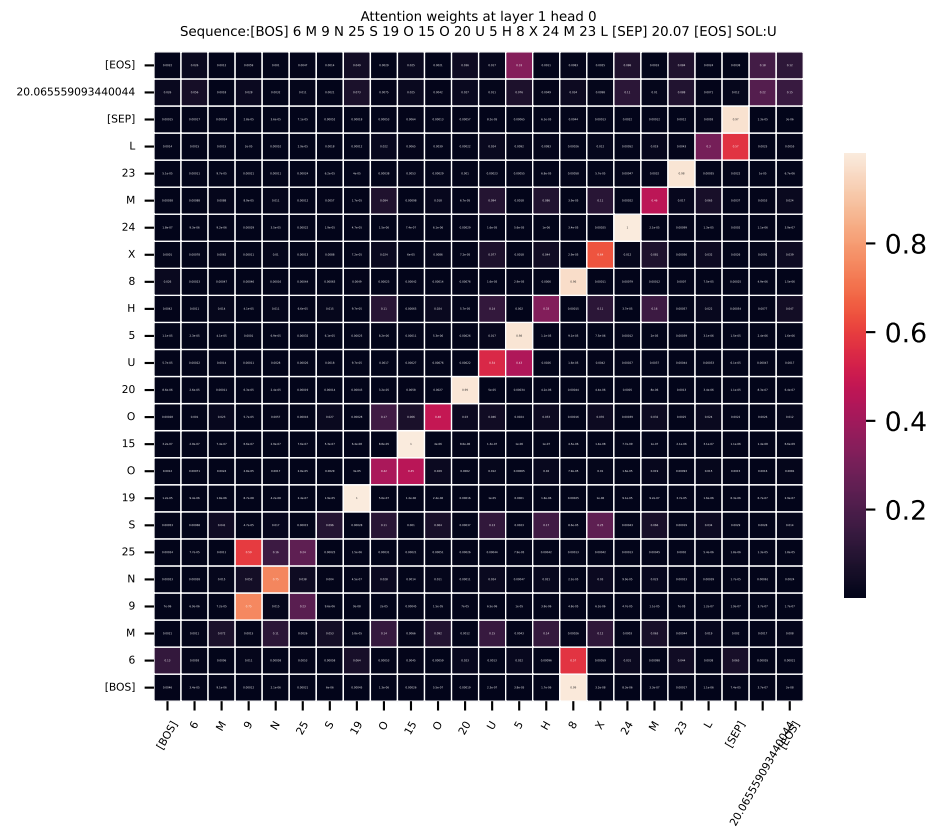
0.8
0.6
0.4
0.2


Attention weights at layer 1 head 0
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[EOS]
20.065559093440044
[SEP]
L
23
M
24
X
8
H
5
U
20
O
15
O
19
S
25
N
9
M
6
[BOS]
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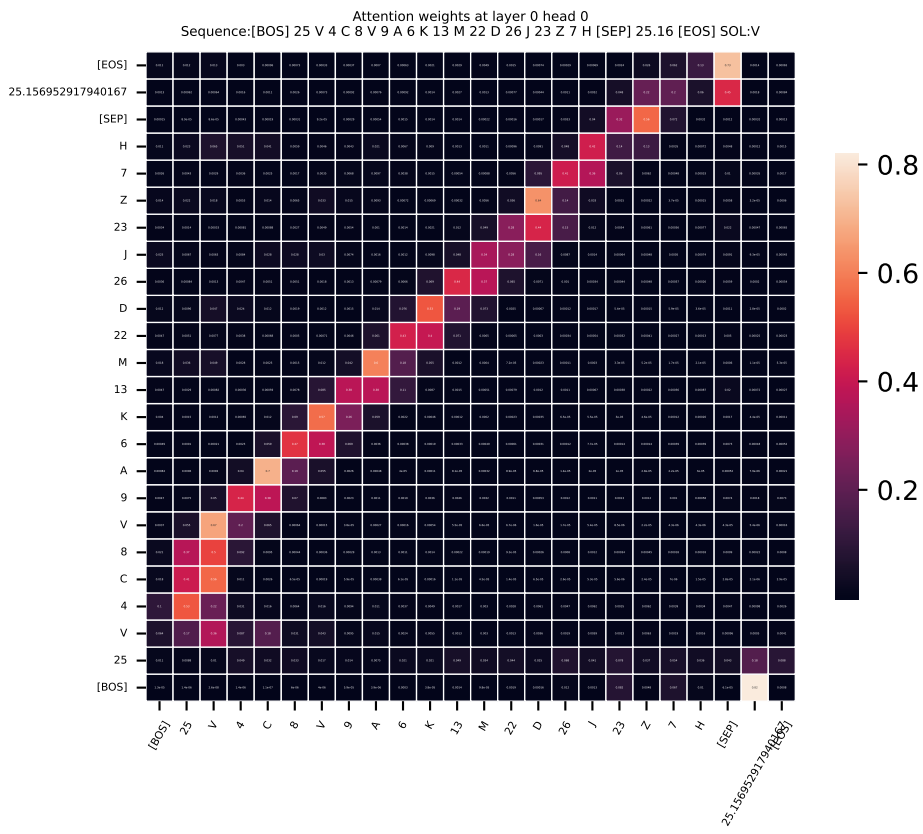
Attention weights at layer 0 head 0
Sequence:[BOS] 25 V 4 C 8 V 9 A 6 K 13 M 22 D 26 J 23 Z 7 H [SEP] 25.16 [EOS] SOL:V
[EOS]
25.156952917940167
[SEP]
H
7
Z
23
J
26
D
22
M
13
K
6
A
9
V
8
C
4
V
25
[BOS]
[BOS]
25
V
4
C
8
V
9
A
6
K
13
M
22
D
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Z
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H
[SEP]
25.156952917940167
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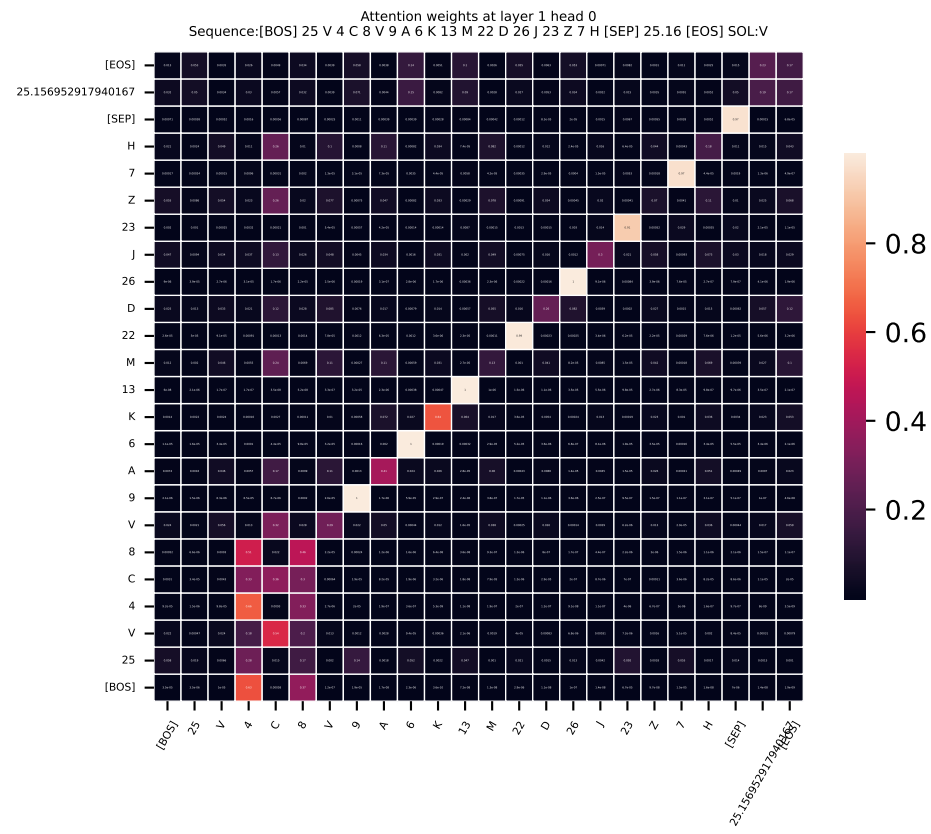
0.4
0.2


Attention weights at layer 1 head 0
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[EOS]
25.156952917940167
[SEP]
H
7
Z
23
J
26
D
22
M
13
K
6
A
9
V
8
C
4
V
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[BOS]
[BOS]
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V
4
C
8
V
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A
6
K
13
M
22
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Z
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H
[SEP]
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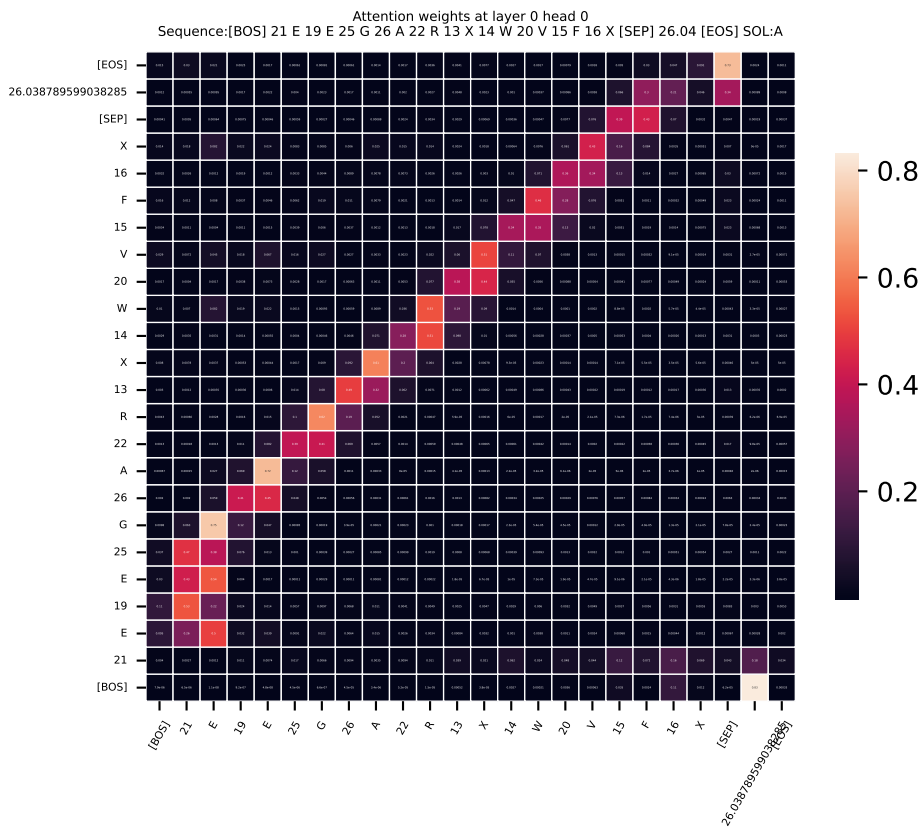
Attention weights at layer 0 head 0
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[EOS]
26.038789599038285
[SEP]
X
16
F
15
V
20
W
14
X
13
R
22
A
26
G
25
E
19
E
21
[BOS]
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0.8
0.6
0.4
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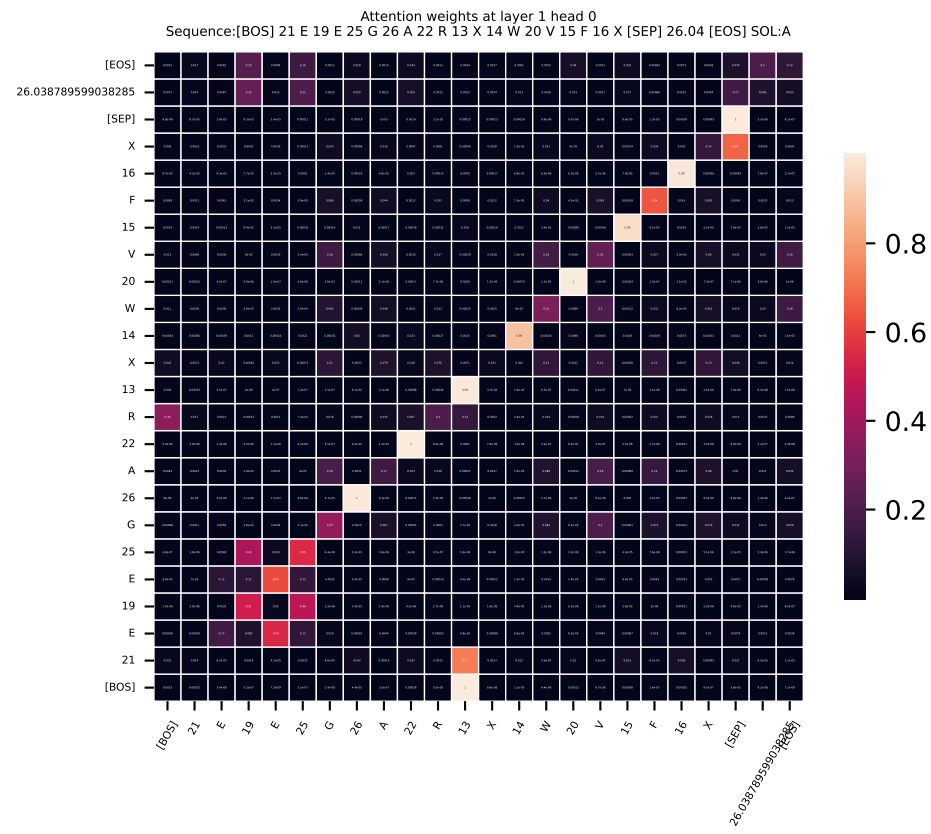
Attention weights at layer 1 head 0
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[EOS]
26.038789599038285
[SEP]
X
16
F
15
V
20
W
14
X
13
R
22
A
26
G
25
E
19
E
21
[BOS]
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0.4
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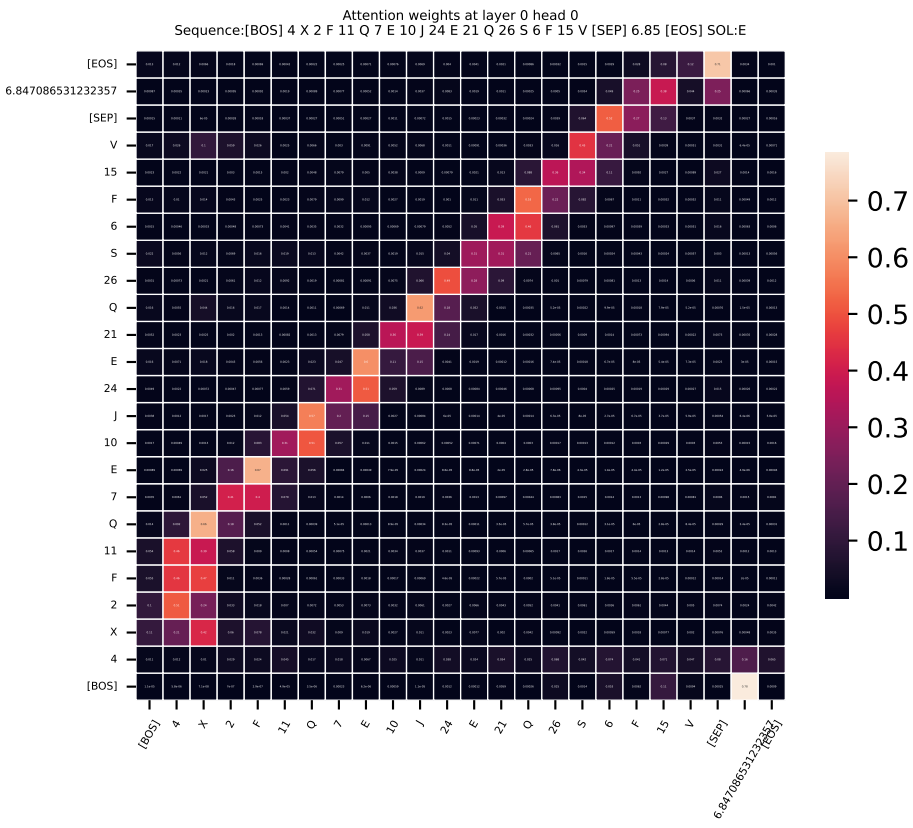
Attention weights at layer 0 head 0
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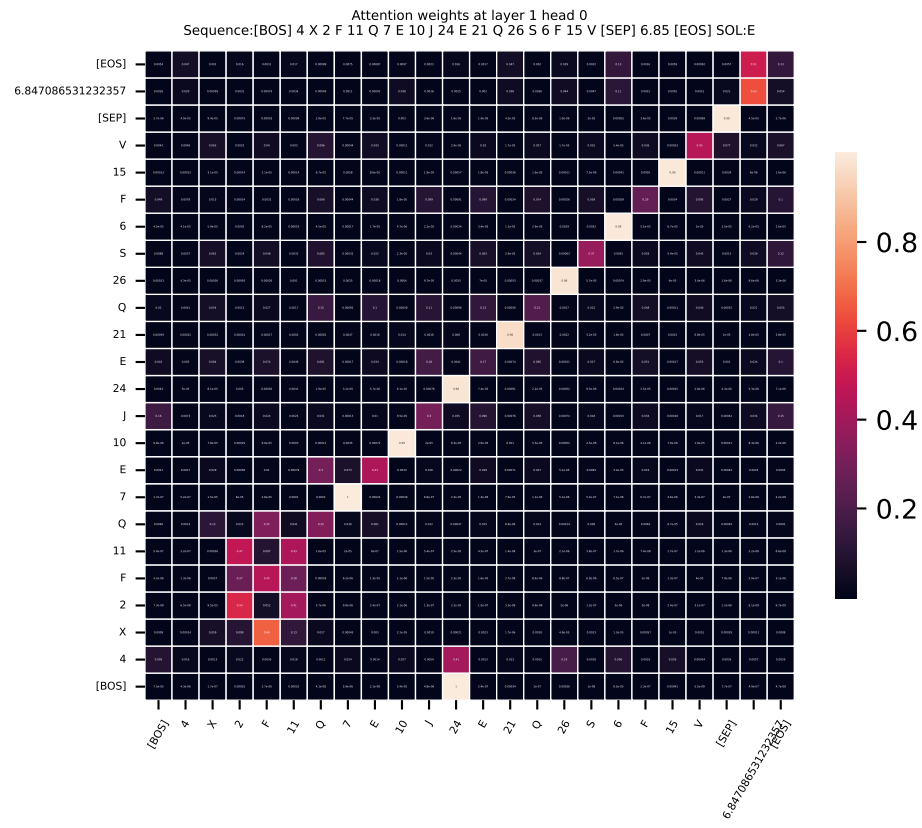
6.847086531232357
[SEP]
V
15
F
6
S
26
Q
21
E
24
J
10
E
7
Q
11
F
2
X
4
[BOS]
[BOS] 4 X 2 F 11 Q 7 E 10 J 24 E 21 Q 26 S 6 F 15 V [SEP] 6.847086531232357 [EOS]
0.7
0.6
0.5
0.4
0.3
0.2
0.1


Attention weights at layer 1 head 0
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6.847086531232357
[SEP]
V
15
F
6
S
26
Q
21
E
24
J
10
E
7
Q
11
F
2
X
4
[BOS]
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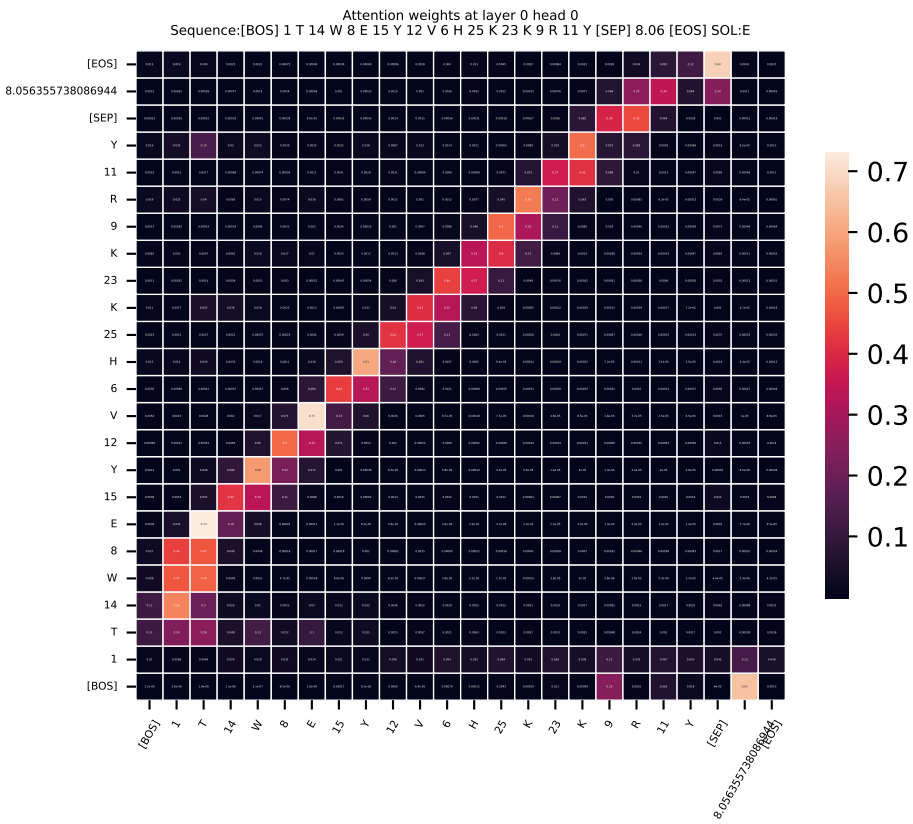
Attention weights at layer 0 head 0
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[EOS]
8.056355738086944
[SEP]
Y
11
R
9
K
23
K
25
H
6
V
12
Y
15
E
8
W
14
T
1
[BOS]
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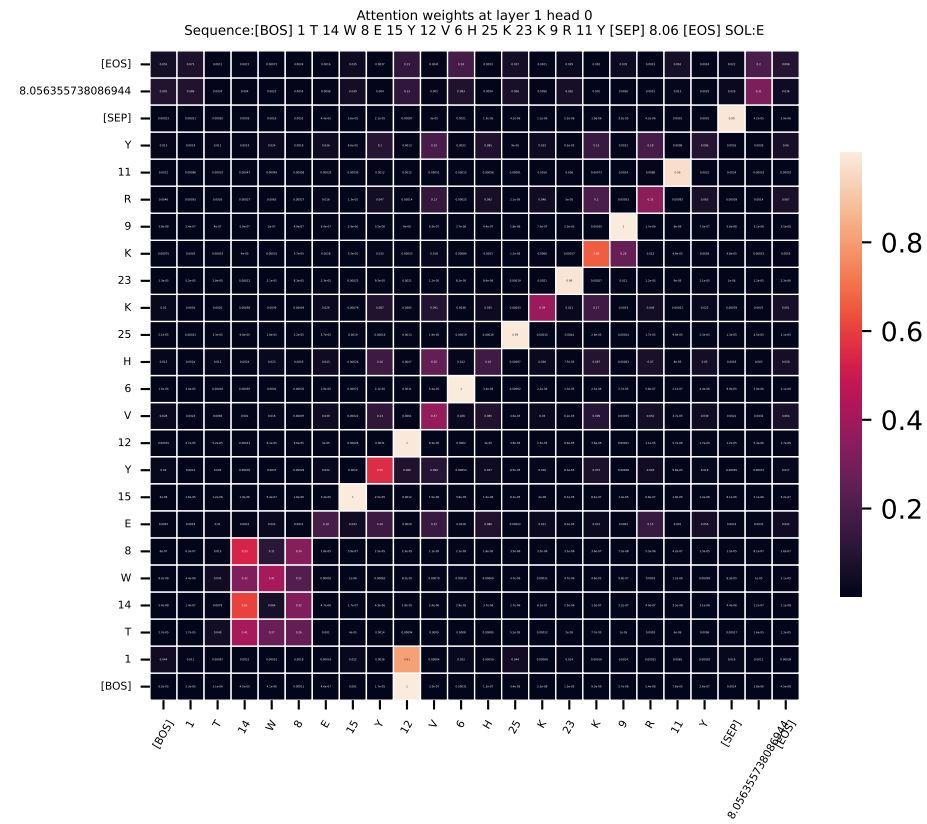
0.6
0.5
0.4
0.3
0.2
0.1


Attention weights at layer 1 head 0
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[EOS]
8.056355738086944
[SEP]
Y
11
R
9
K
23
K
25
H
6
V
12
Y
15
E
8
W
14
T
1
[BOS]
0.8
0.6
0.4
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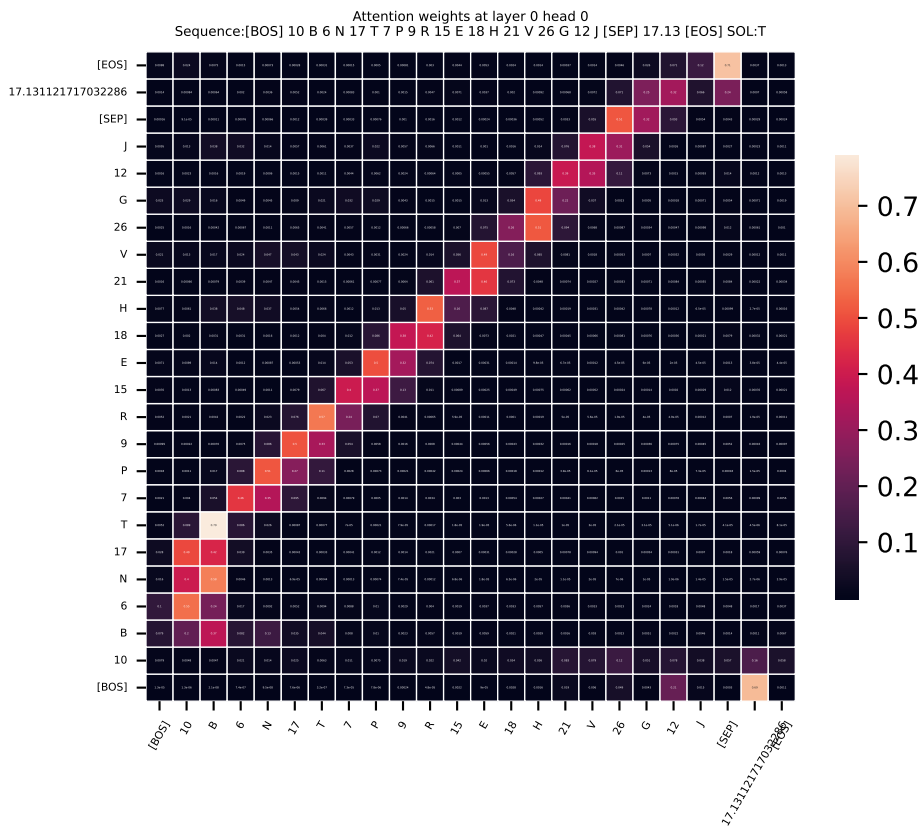
Attention weights at layer 0 head 0
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[EOS]
17.131121717032286
[SEP]
J
12
G
26
V
21
H
18
E
15
R
9
P
7
T
17
N
6
B
10
[BOS]
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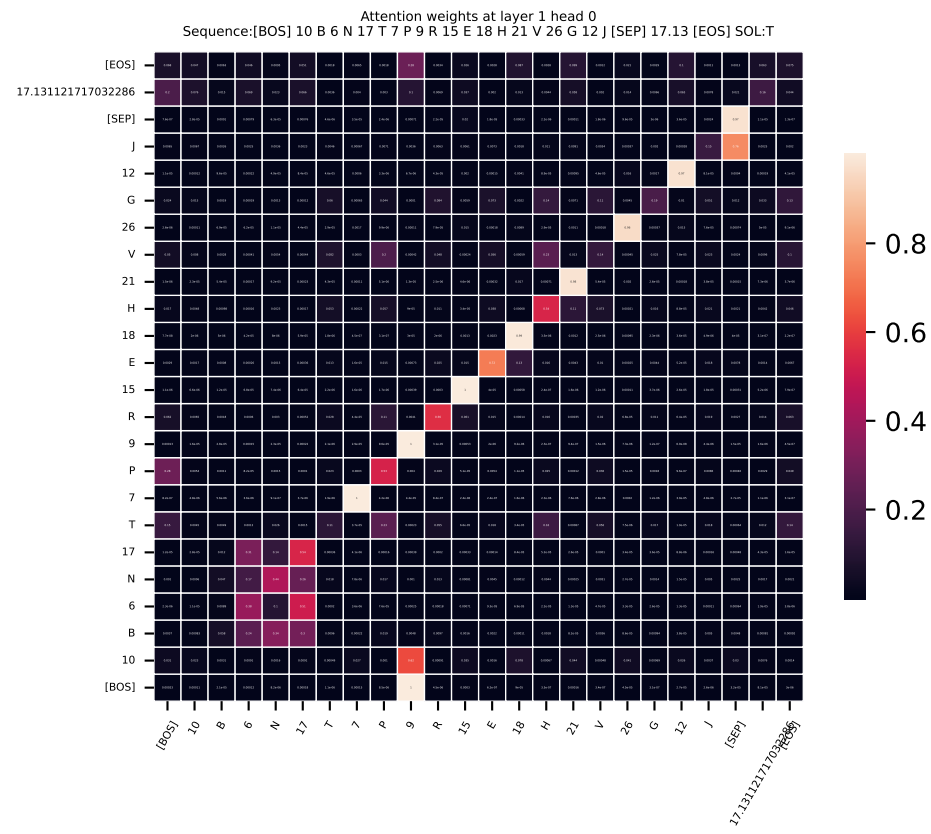
0.6
0.5
0.4
0.3
0.2
0.1


Attention weights at layer 1 head 0
Sequence:[BOS] 10 B 6 N 17 T 7 P 9 R 15 E 18 H 21 V 26 G 12 J [SEP] 17.13 [EOS] SOL:T
[EOS]
17.131121717032286
[SEP]
J
12
G
26
V
21
H
18
E
15
R
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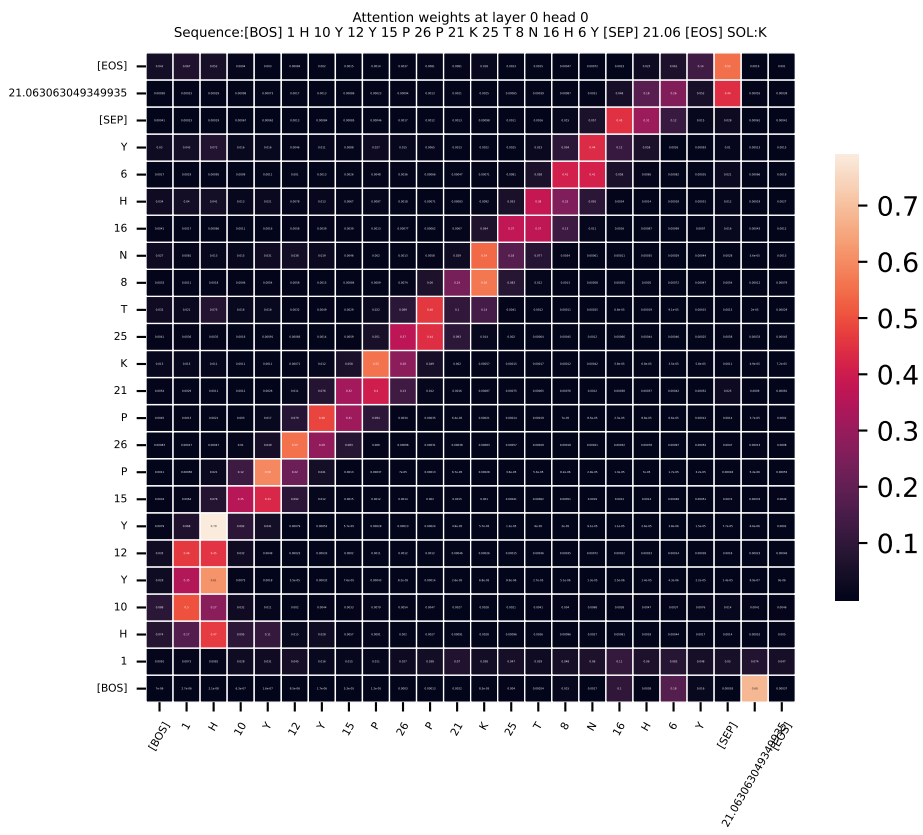
P
7
T
17
N
6
B
10
[BOS]
0.8
0.6
0.4
0.2


Attention weights at layer 0 head 0
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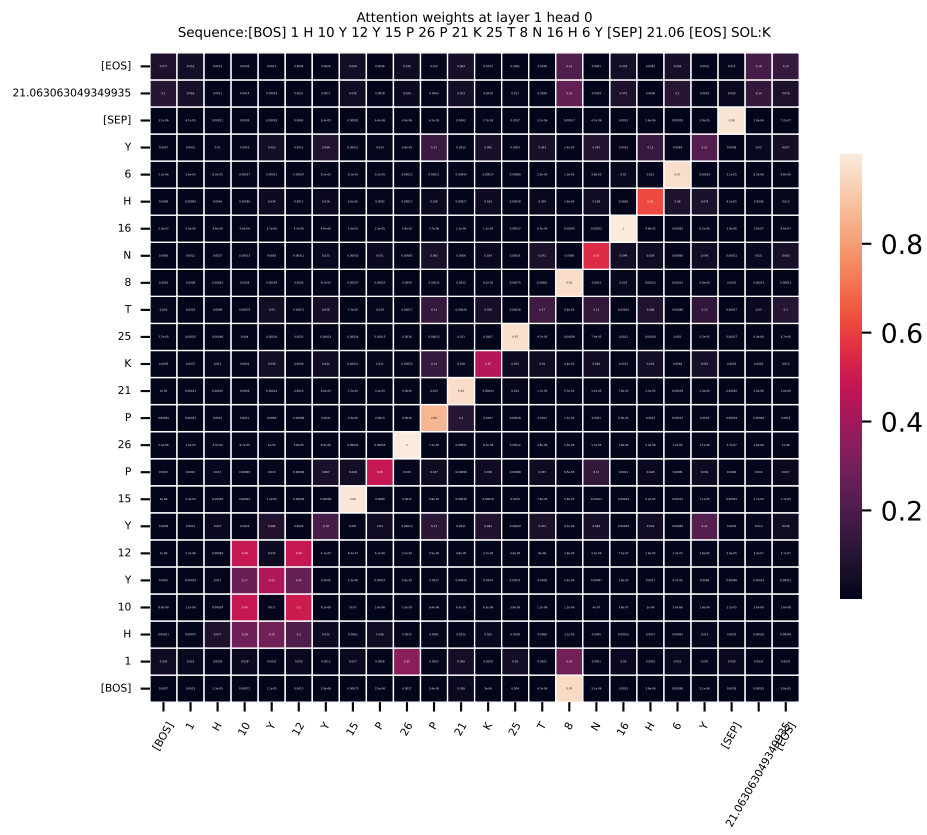
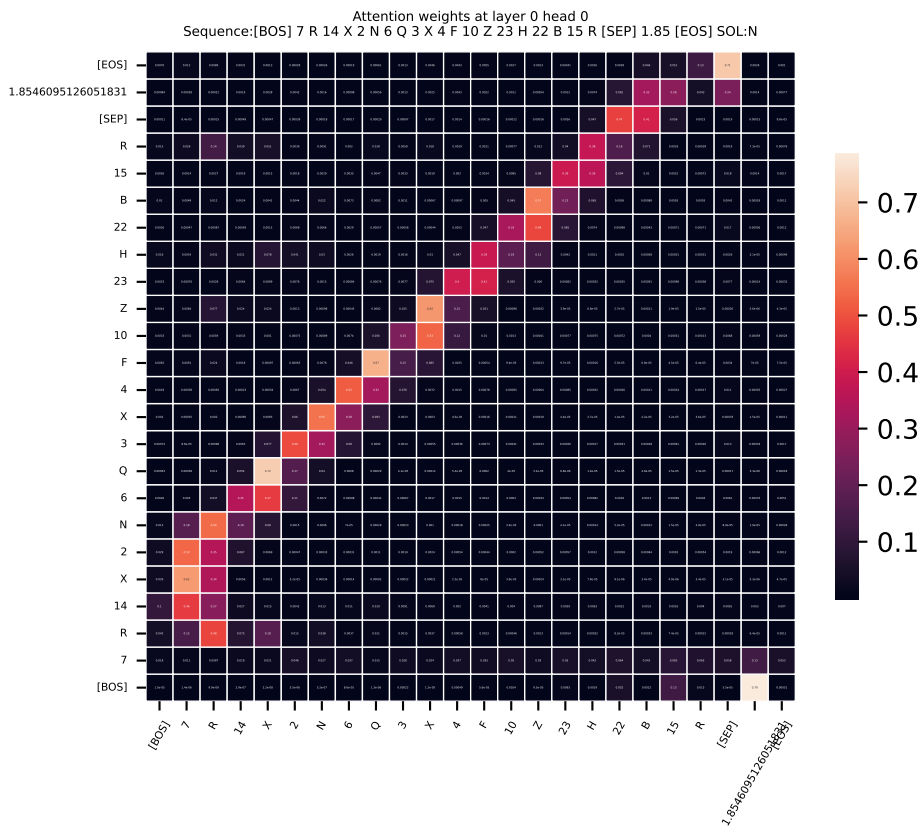
[EOS]
21.063063049349935
[SEP]
Y
6
H
16
N
8
T
25
K
21
P
26
P
15
Y
12
Y
10
H
1
[BOS]
[BOS] 1 H 10 Y 12 Y 15 P 26 P 21 K 25 T 8 N 16 H 6 Y [SEP]
0.7
0.6
0.5
0.4
0.3
0.2
0.1


Attention weights at layer 1 head 0
Sequence:[BOS] 1 H 10 Y 12 Y 15 P 26 P 21 K 25 T 8 N 16 H 6 Y [SEP] 21.06 [EOS] SOL:K
[EOS]
21.063063049349935
[SEP]
Y
6
H
16
N
8
T
25
K
21
P
26
P
15
Y
12
Y
10
H
1
[BOS]
[BOS] 1 H 10 Y 12 Y 15 P 26 P 21 K 25 T 8 N 16 H 6 Y [SEP]
0.8
0.6
0.4
0.2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[EOS]
1.8546095126051831
[SEP]
R
15
B
22
H
23
Z
10
F
4
X
3
Q
6
N
2
X
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R
7
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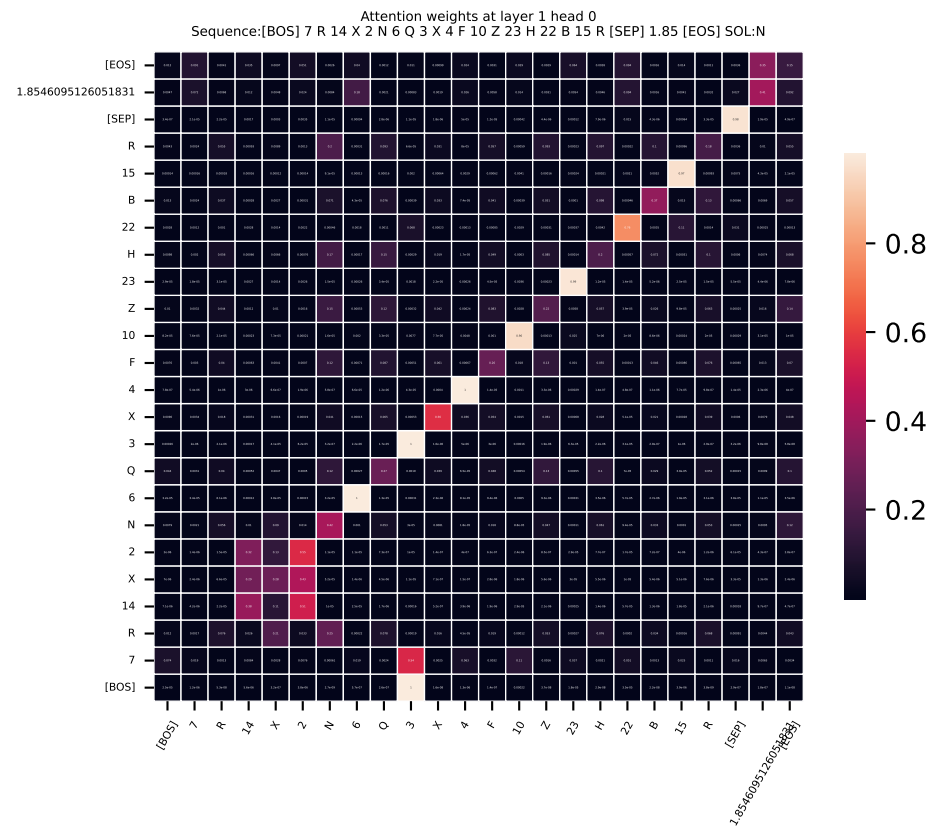
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[SEP]
R
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B
22
H
23
Z
10
F
4
X
3
Q
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X
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R
7
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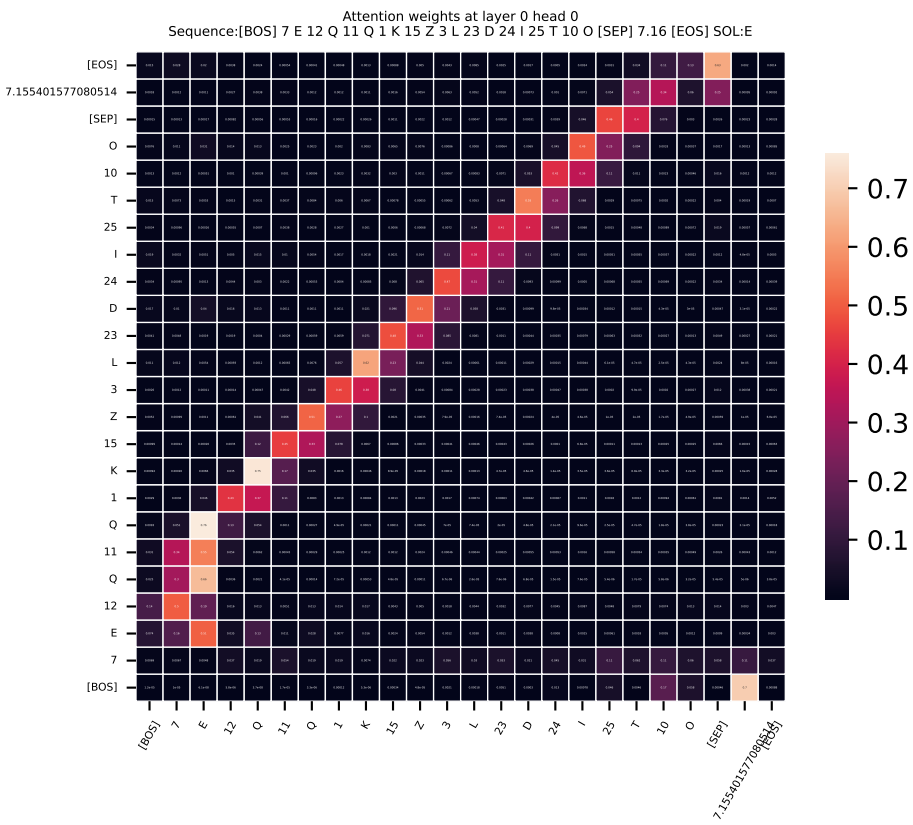
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[SEP]
O
10
T
25
I
24
D
23
L
3
Z
15
K
1
Q
11
Q
12
E
7
[BOS]
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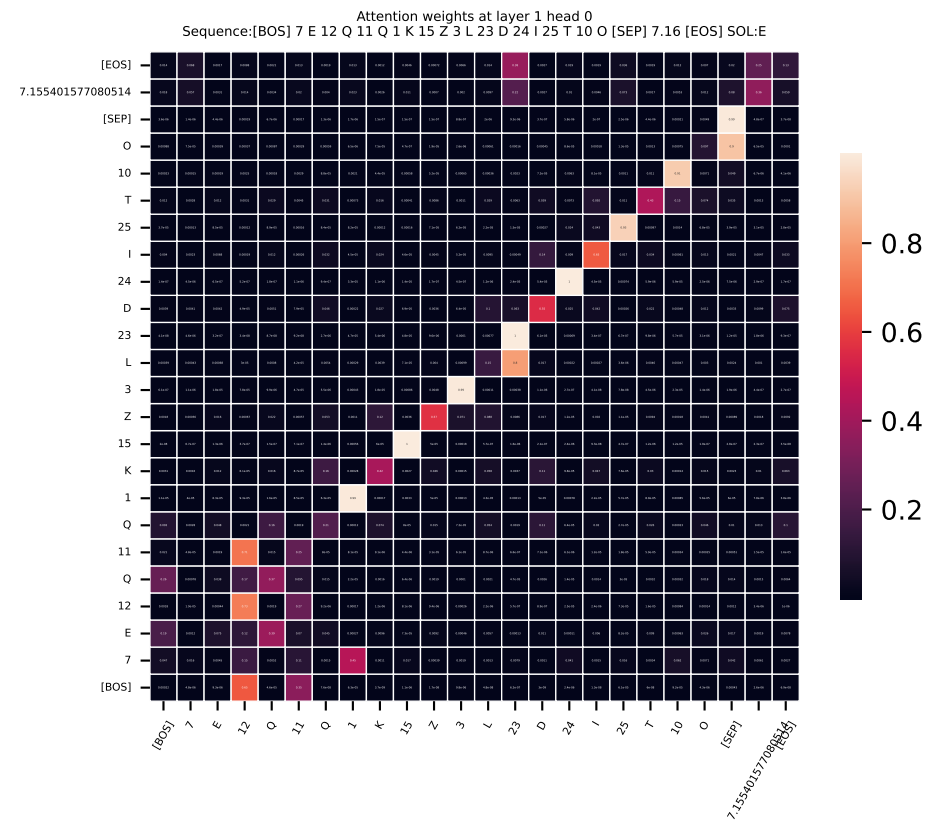
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Q
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Q
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E
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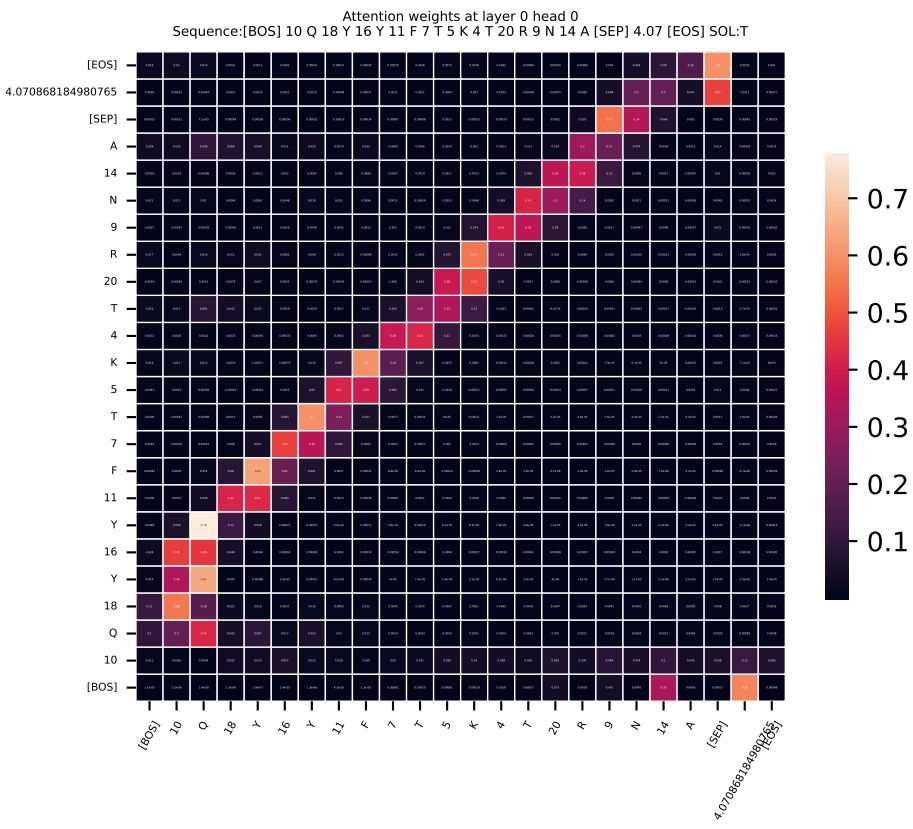
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[SEP]
A
14
N
9
R
20
T
4
K
5
T
7
F
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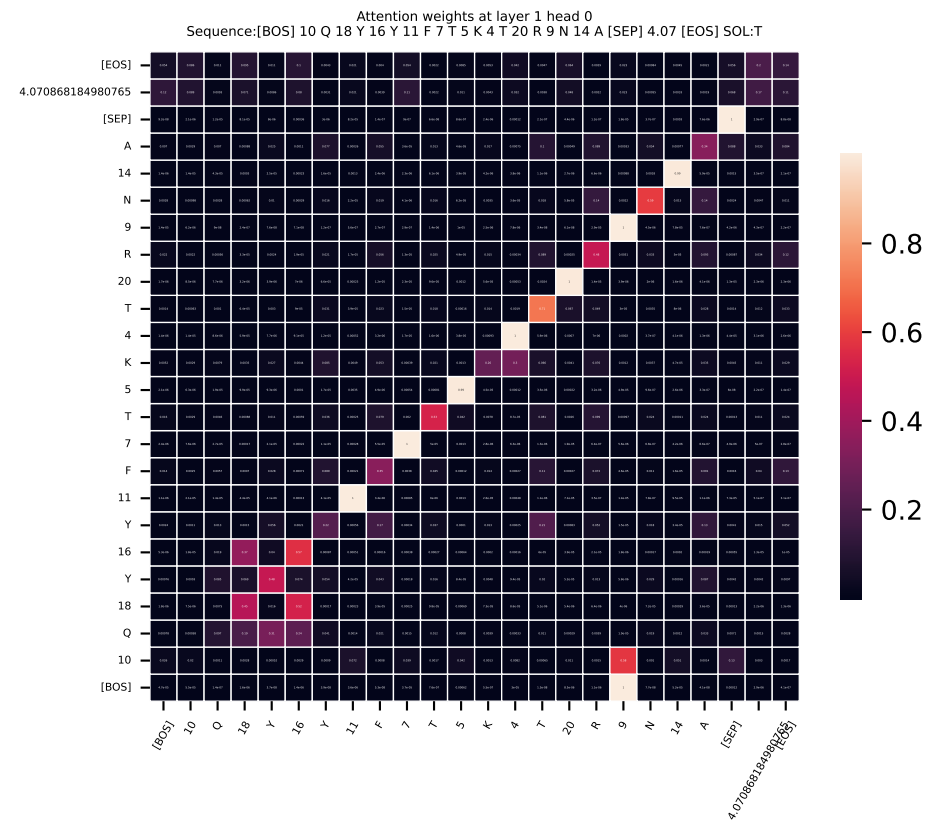
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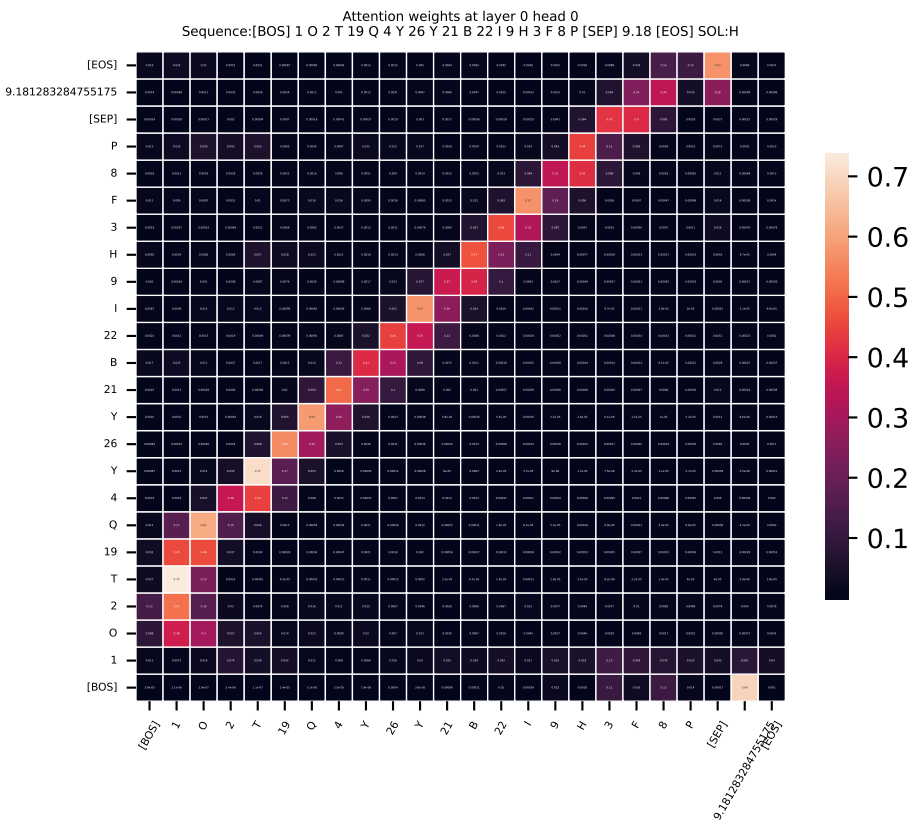
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[SEP]
P
8
F
3
H
9
I
22
B
21
Y
26
Y
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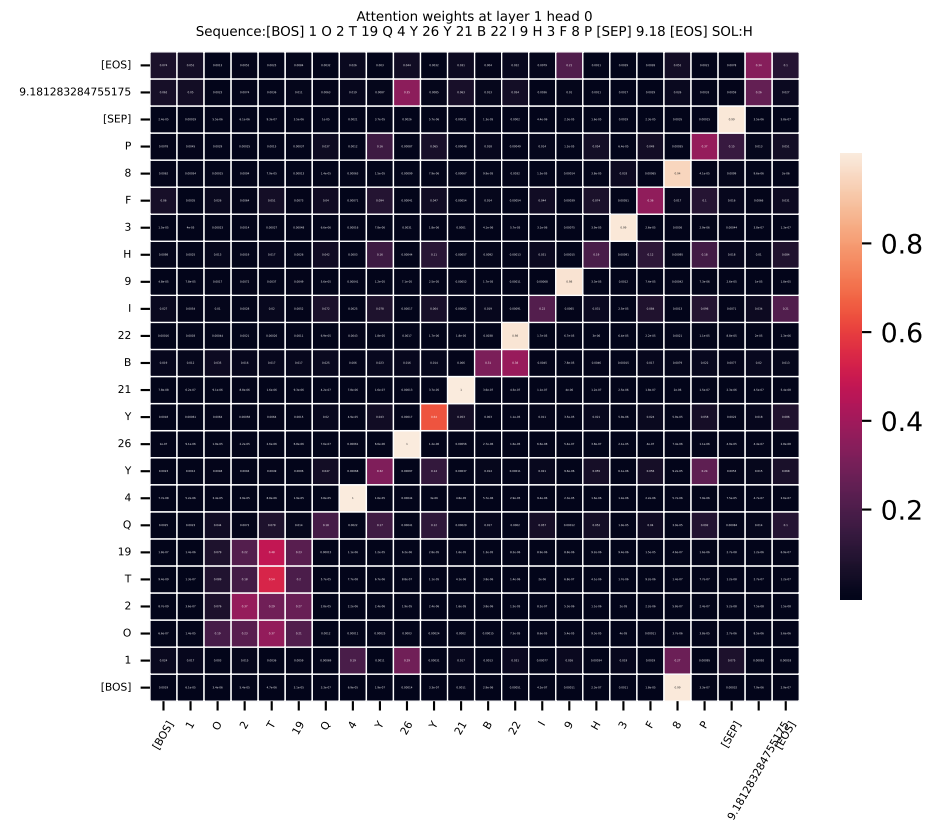
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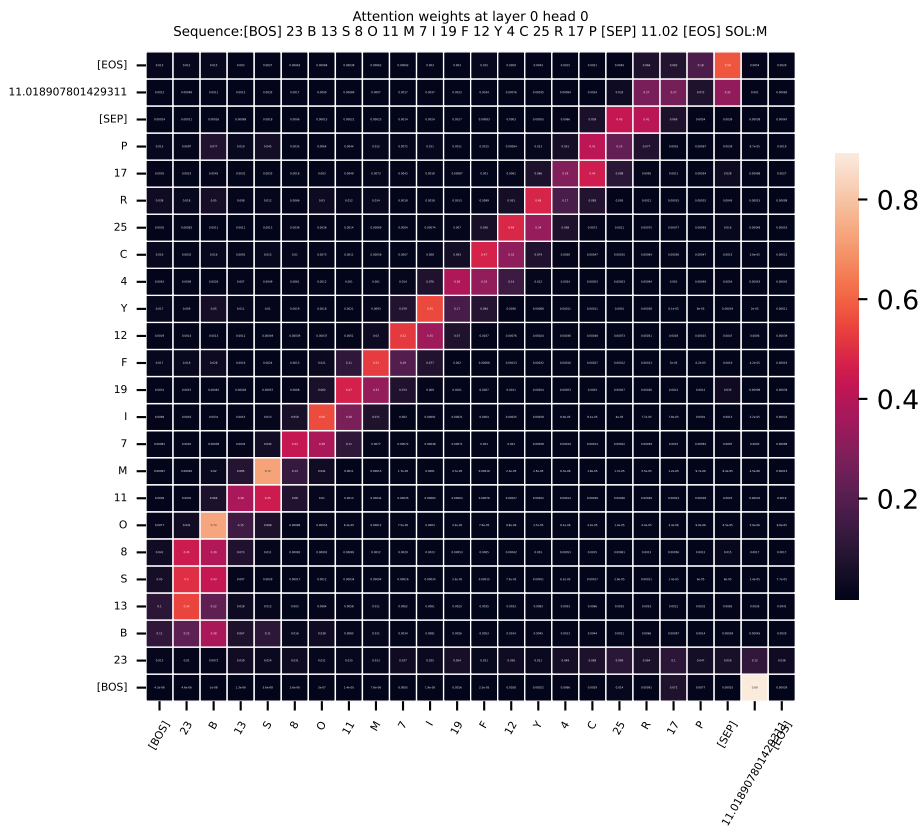
Attention weights at layer 0 head 0
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[EOS]
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[SEP]
P
17
R
25
C
4
Y
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F
19
I
7
M
11
O
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S
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B
23
[BOS]
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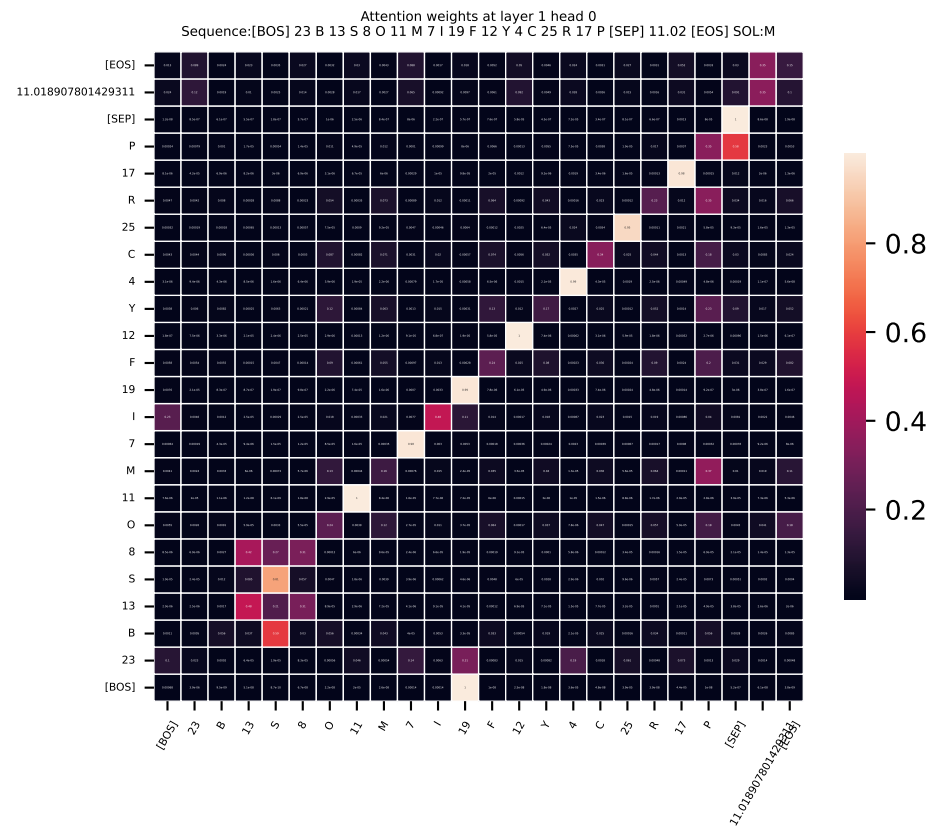
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11.018907801429311
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8
S
13
B
23
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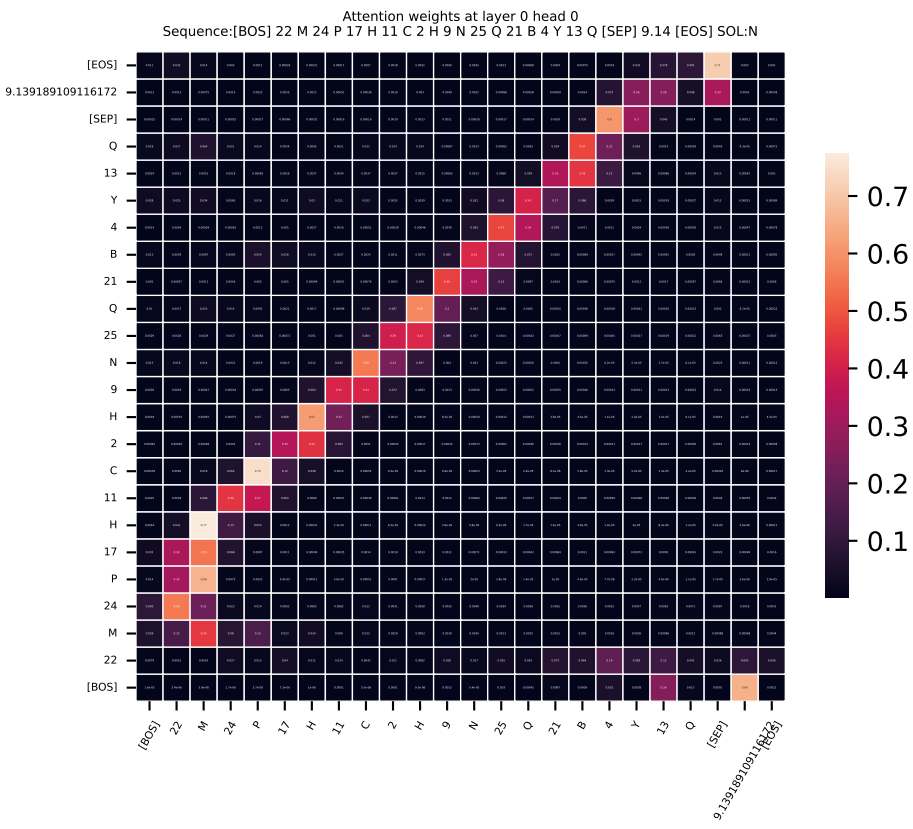
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[EOS]
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[SEP]
Q
13
Y
4
B
21
Q
25
N
9
H
2
C
11
H
17
P
24
M
22
[BOS]
[BOS] 22 M 24 P 17 H 11 C 2 H 9 N 25 Q 21 B 4 Y 13 Q [SEP] 9.14 [EOS] SOL:N
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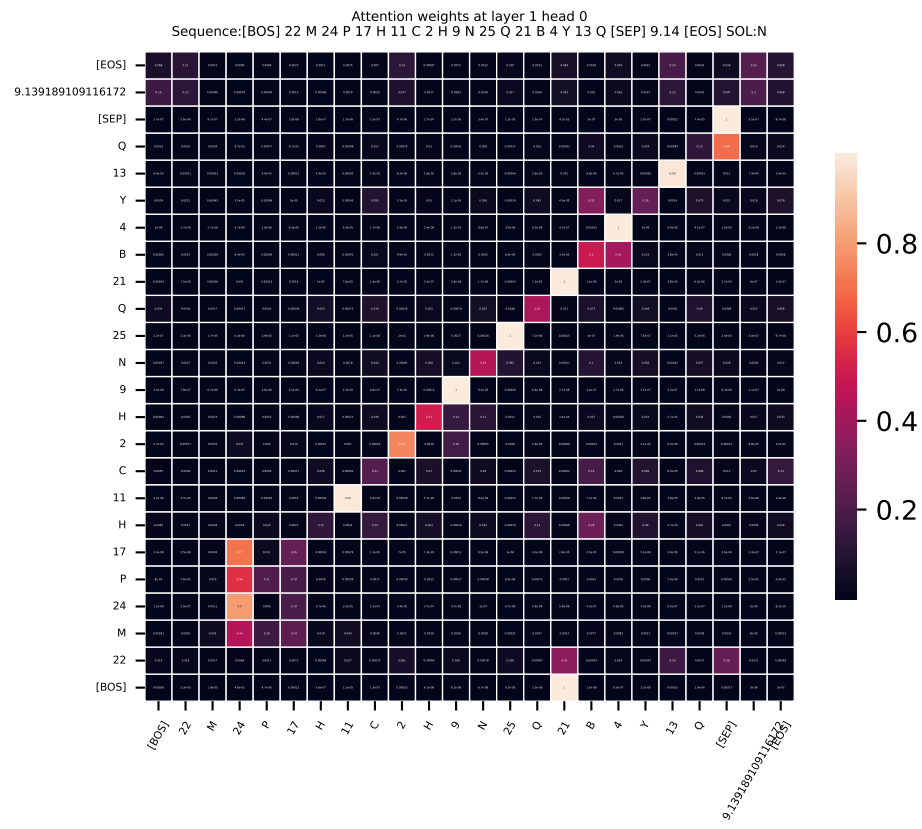
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[SEP]
Q
13
Y
4
B
21
Q
25
N
9
H
2
C
11
H
17
P
24
M
22
[BOS]
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0.4
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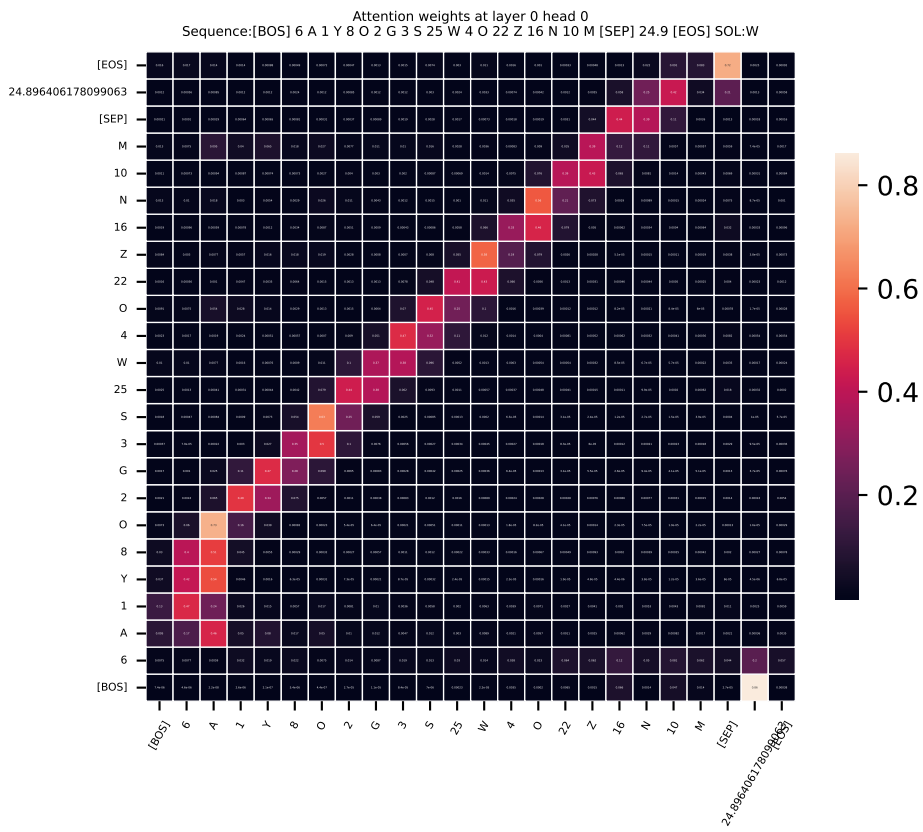
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[EOS]
24.896406178099063
[SEP]
M
10
N
16
Z
22
O
4
W
25
S
3
G
2
O
8
Y
1
A
6
[BOS]
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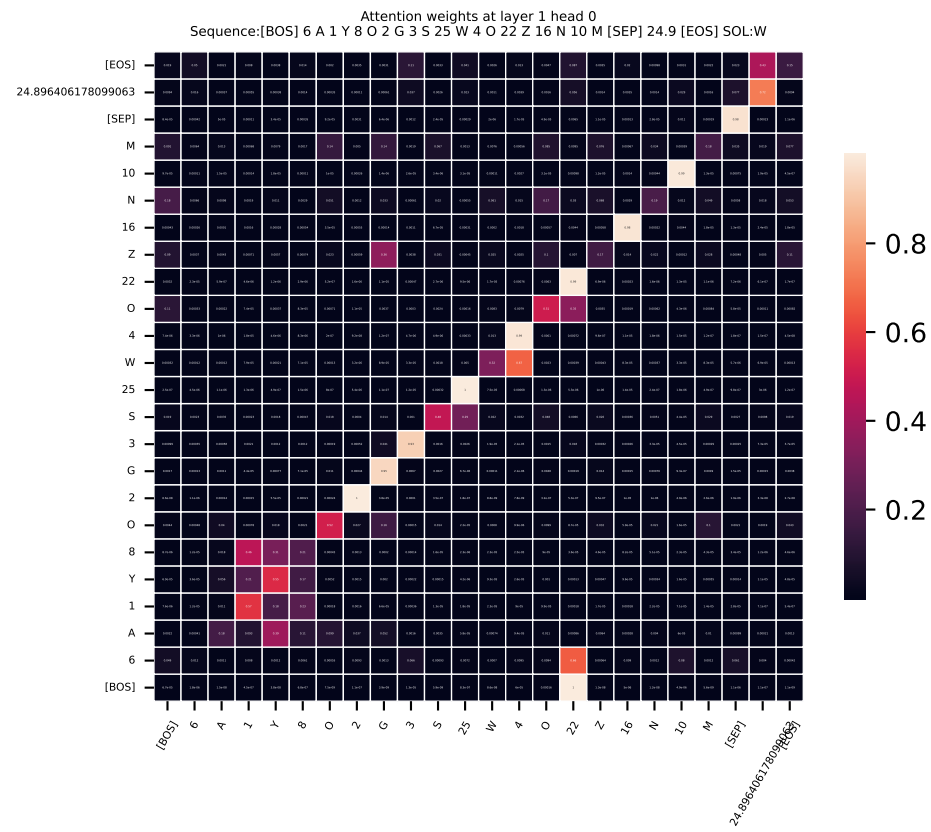
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24.896406178099063
[SEP]
M
10
N
16
Z
22
O
4
W
25
S
3
G
2
O
8
Y
1
A
6
[BOS]
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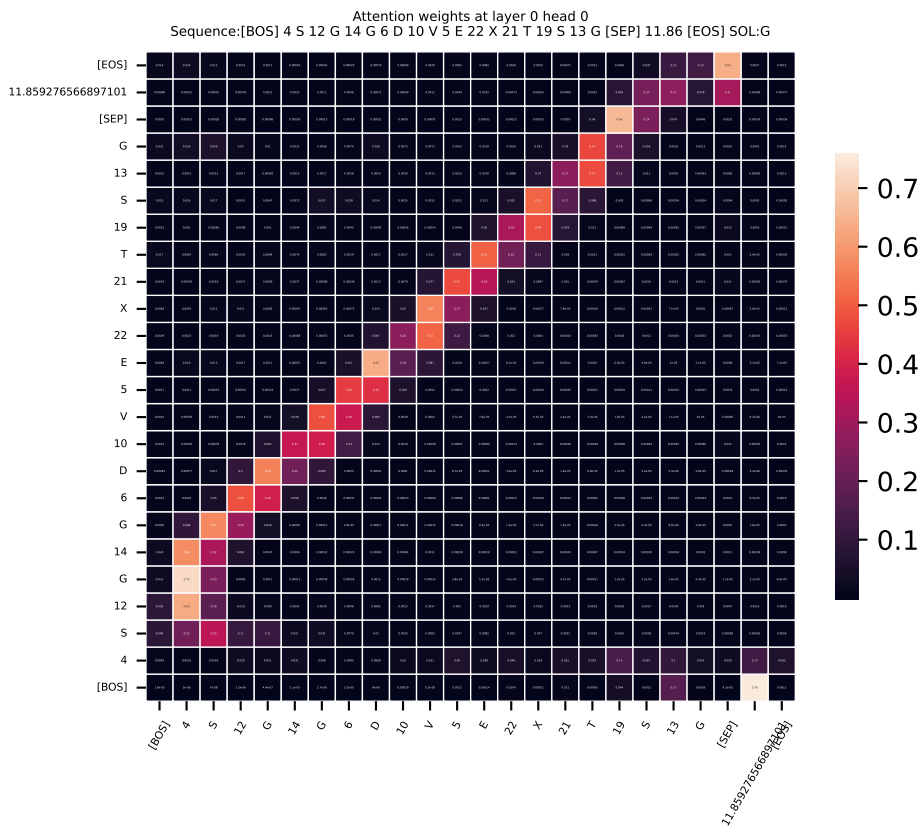
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[SEP]
G
13
S
19
T
21
X
22
E
5
V
10
D
6
G
14
G
12
S
4
[BOS]
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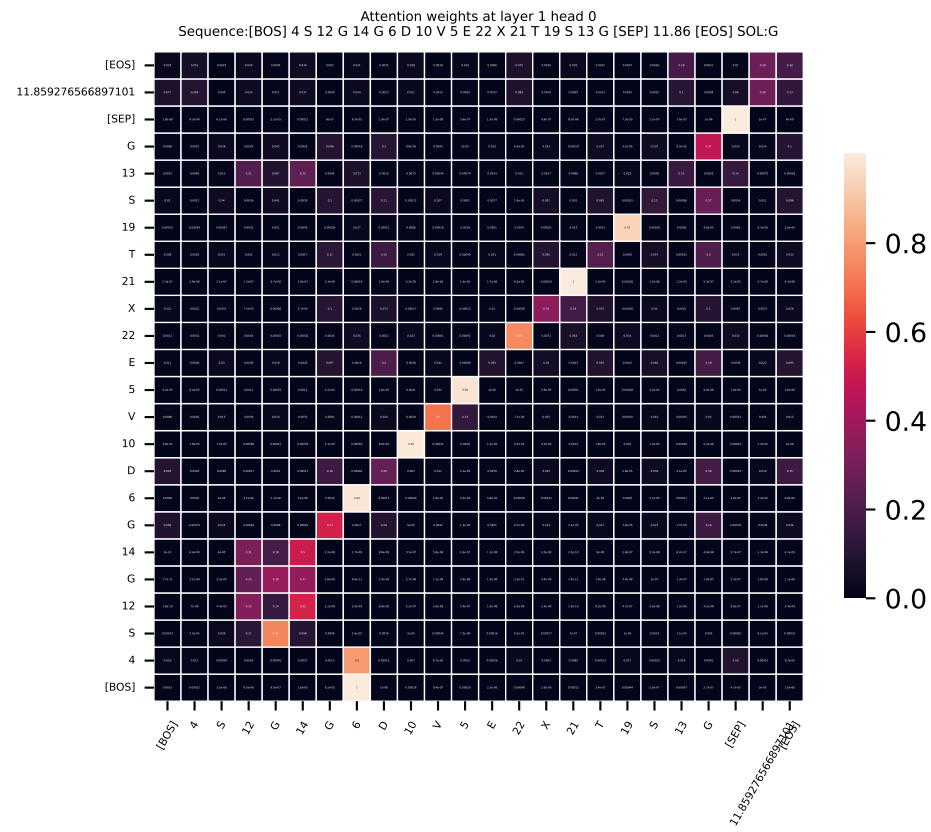
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[SEP]
G
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S
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T
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X
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V
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D
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G
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S
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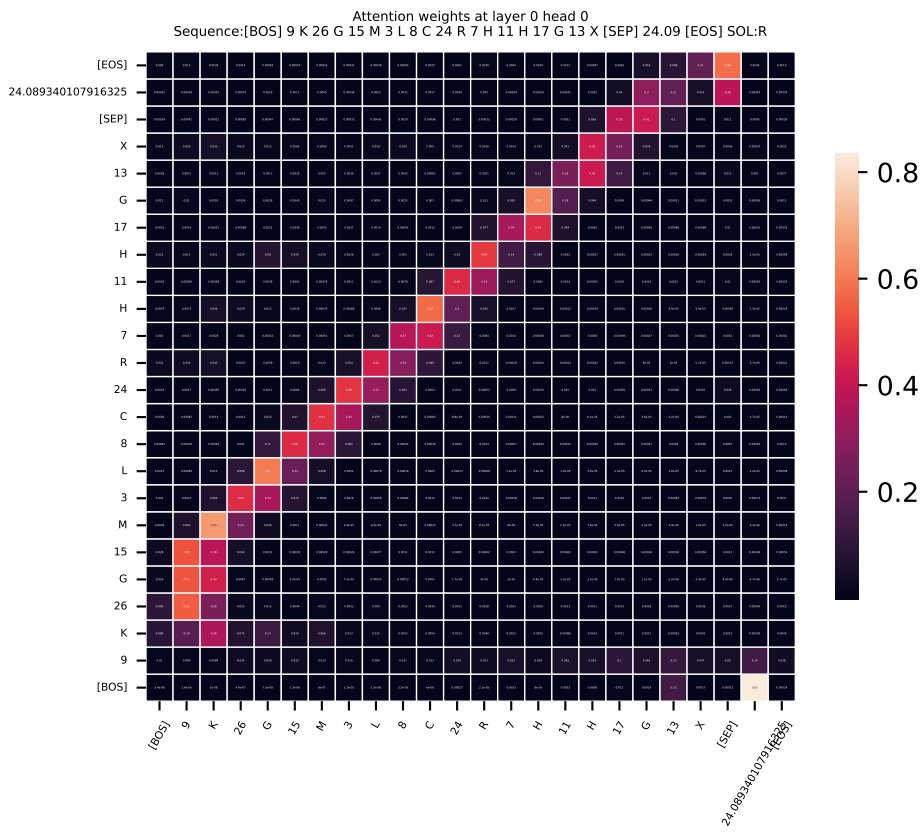
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[EOS]
24.089340107916325
[SEP]
X
13
G
17
H
11
H
7
R
24
C
8
L
3
M
15
G
26
K
9
[BOS]
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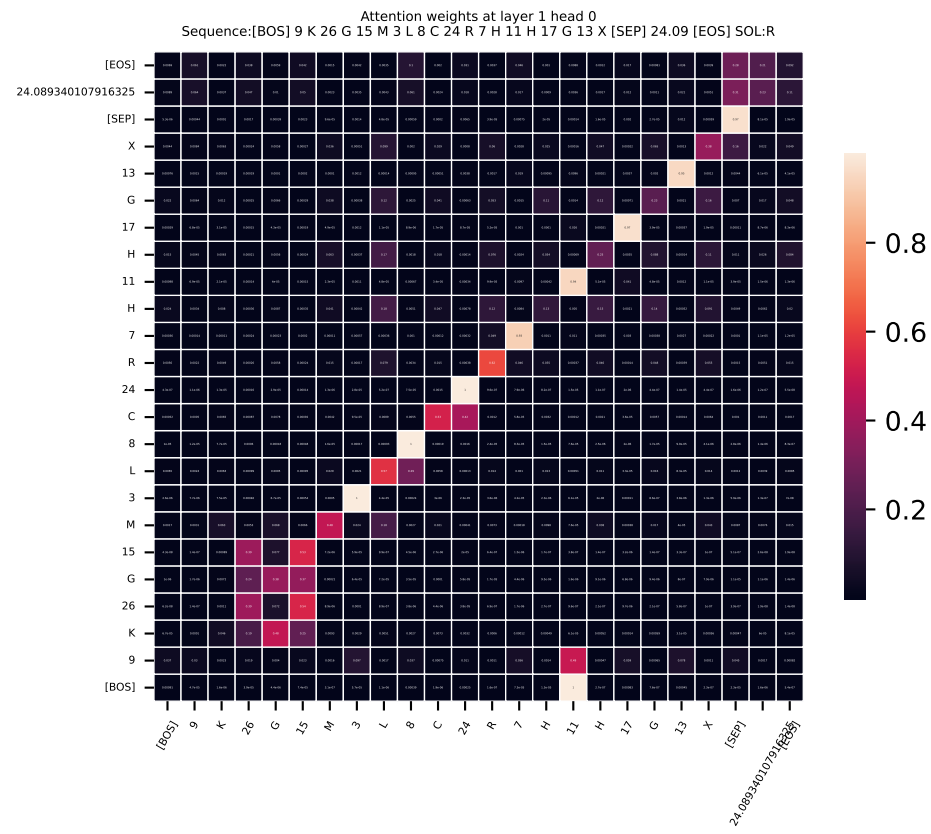
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[SEP]
X
13
G
17
H
11
H
7
R
24
C
8
L
3
M
15
G
26
K
9
[BOS]
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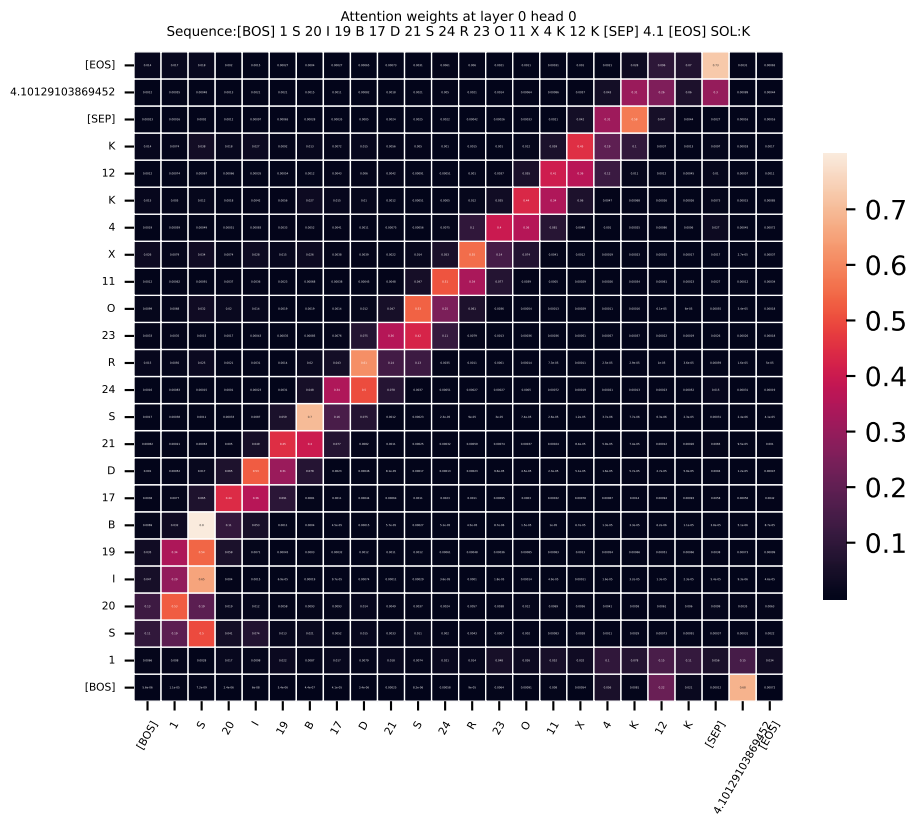
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4.10129103869452
[SEP]
K
12
K
4
X
11
O
23
R
24
S
21
D
17
B
19
I
20
S
1
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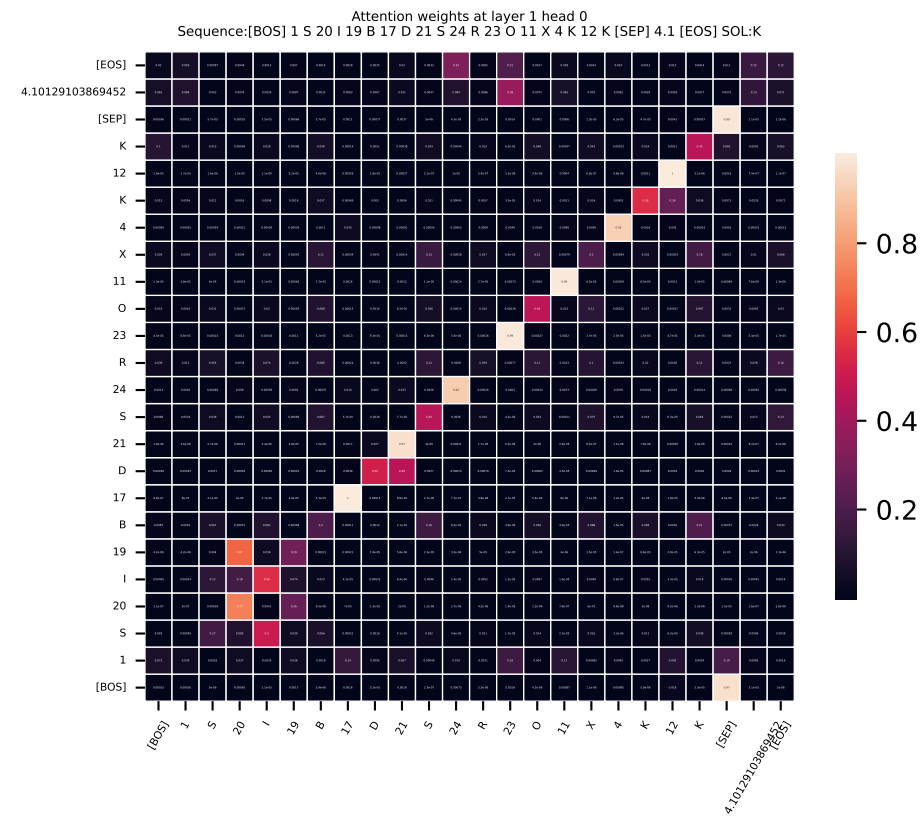
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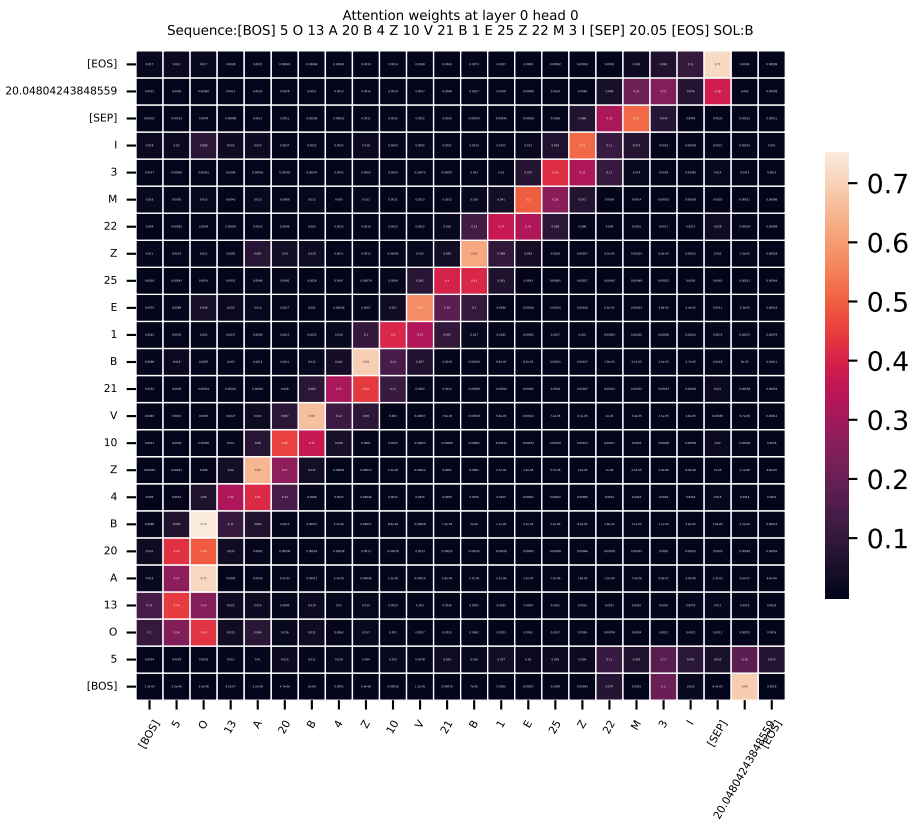
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[EOS]
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[SEP]
I
3
M
22
Z
25
E
1
B
21
V
10
Z
4
B
20
A
13
O
5
[BOS]
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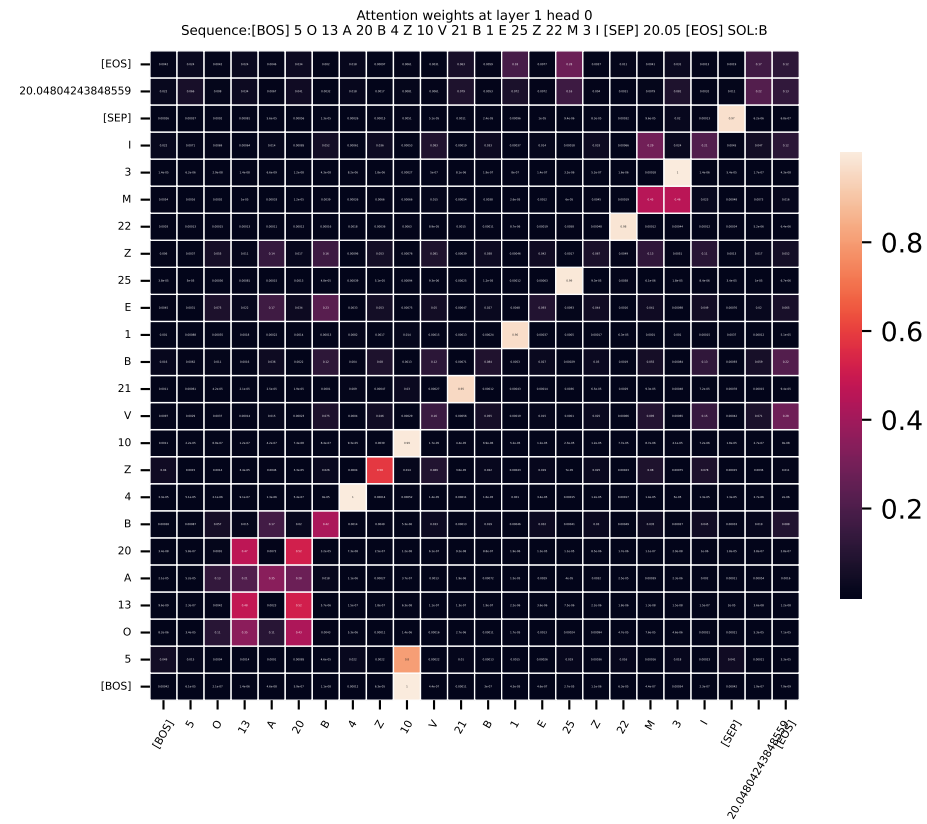
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[SEP]
I
3
M
22
Z
25
E
1
B
21
V
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Z
4
B
20
A
13
O
5
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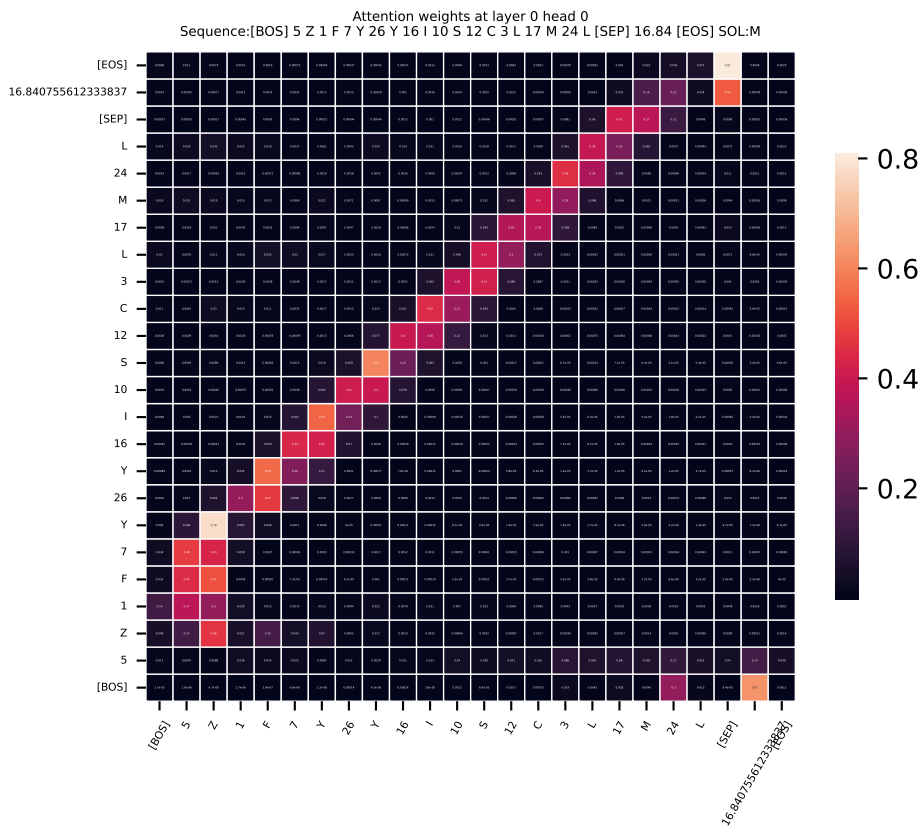
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16.840755612333837
[SEP]
L
24
M
17
L
3
C
12
S
10
I
16
Y
26
Y
7
F
1
Z
5
[BOS]
[BOS]
5
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1
F
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Y
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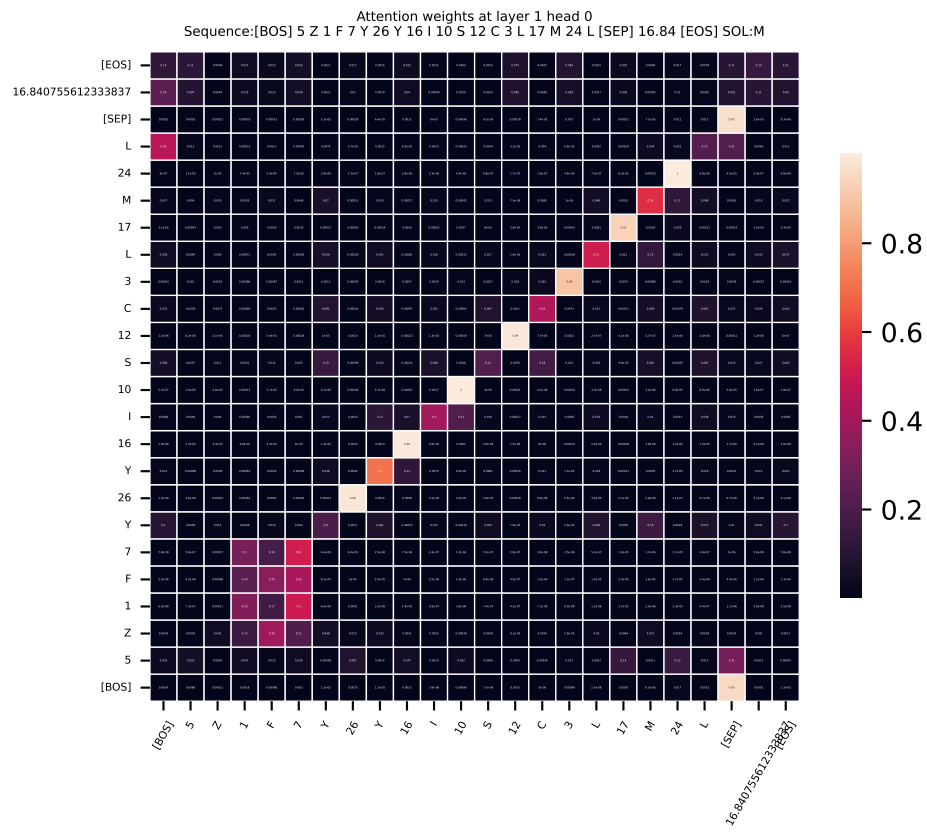
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L
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Z
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[BOS]
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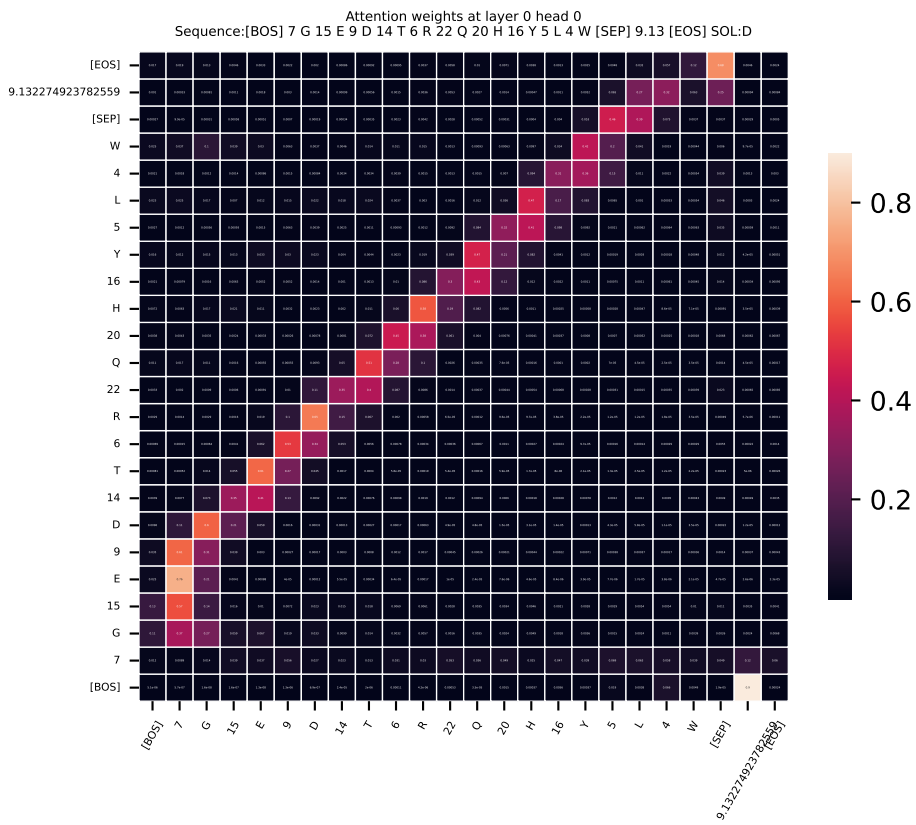
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9.132274923782559
[SEP]
W
4
L
5
Y
16
H
20
Q
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R
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T
14
D
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E
15
G
7
[BOS]
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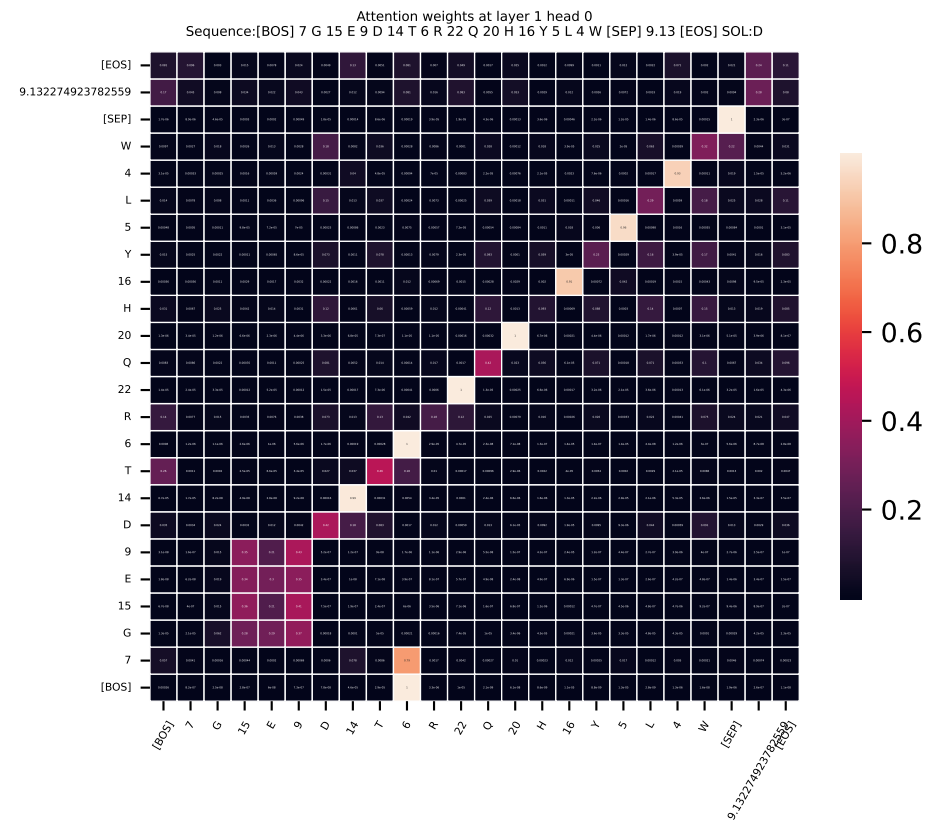
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[EOS]
9.132274923782559
[SEP]
W
4
L
5
Y
16
H
20
Q
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R
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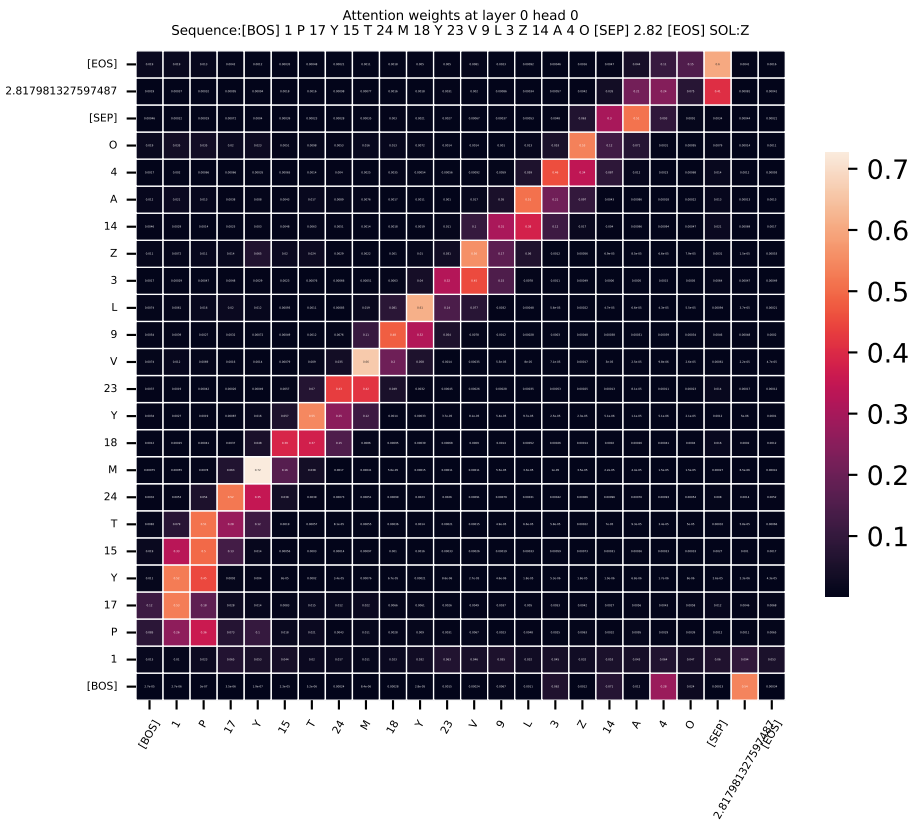
Attention weights at layer 0 head 0
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[EOS]
2.817981327597487
[SEP]
O
4
A
14
Z
3
L
9
V
23
Y
18
M
24
T
15
Y
17
P
1
[BOS]
[BOS] 1 P 17 Y 15 T 24 M 18 Y 23 V 9 L 3 Z 14 A 4 O [SEP] 2.817981327597487 [EOS]
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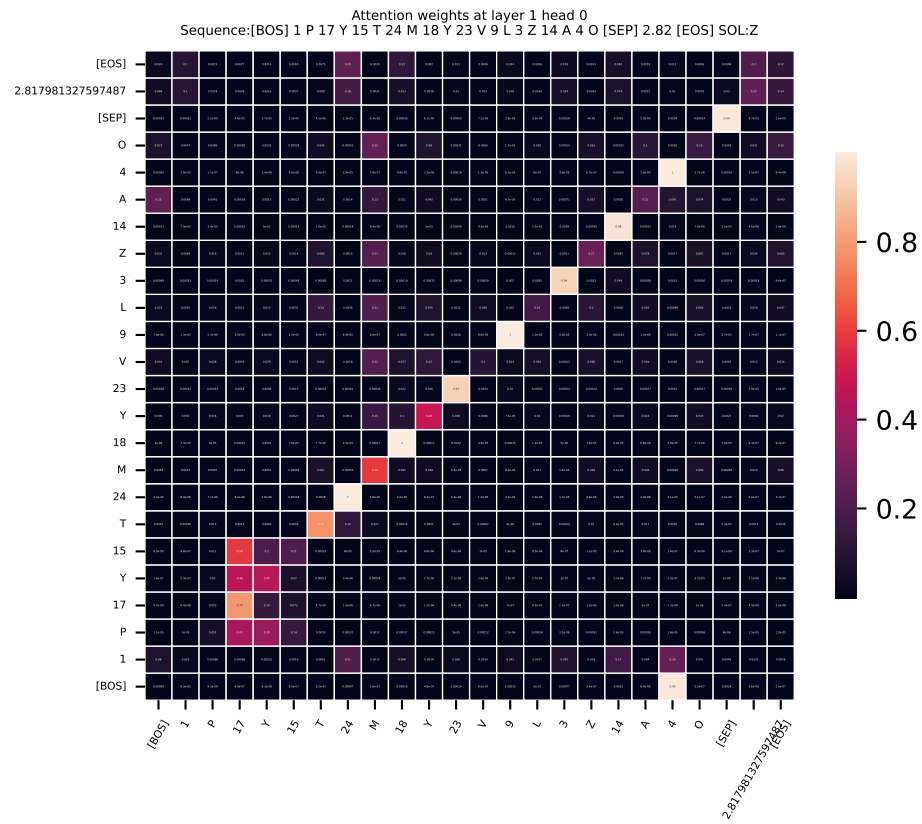
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[SEP]
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4
A
14
Z
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L
9
V
23
Y
18
M
24
T
15
Y
17
P
1
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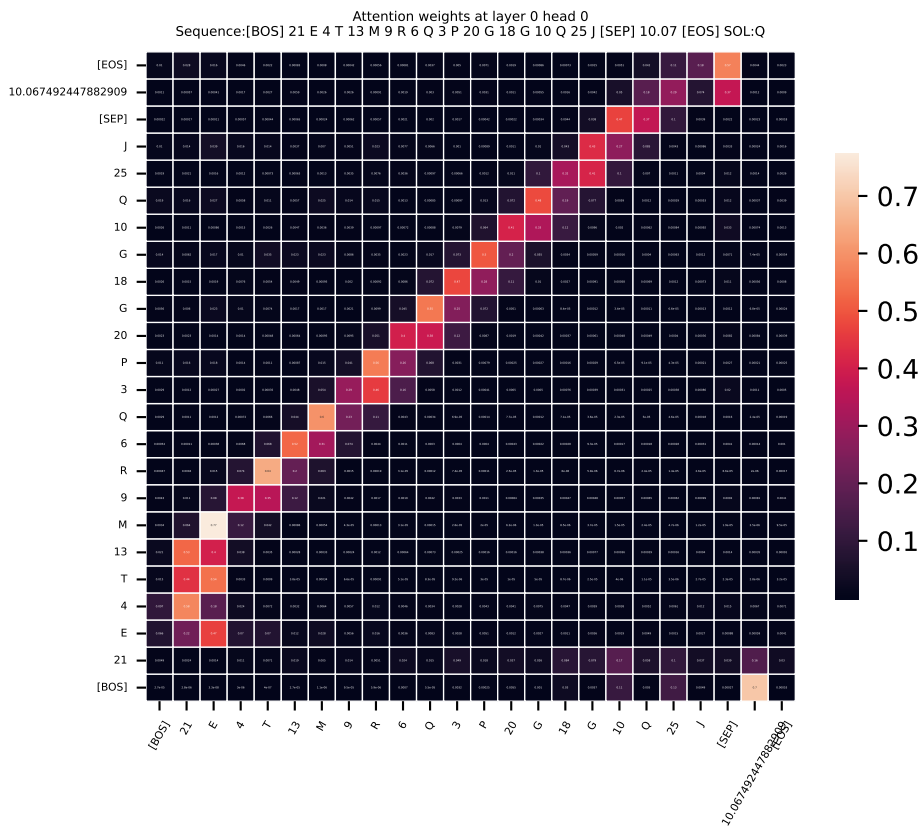
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Sequence:[BOS] 21 E 4 T 13 M 9 R 6 Q 3 P 20 G 18 G 10 Q 25 J [SEP] 10.07 [EOS] SOL:Q
[EOS]
10.067492447882909
[SEP]
J
25
Q
10
G
18
G
20
P
3
Q
6
R
9
M
13
T
4
E
21
[BOS]
[BOS] 21 E 4 T 13 M 9 R 6 Q 3 P 20 G 18 G 10 Q 25 J [SEP] 10.07 [EOS]
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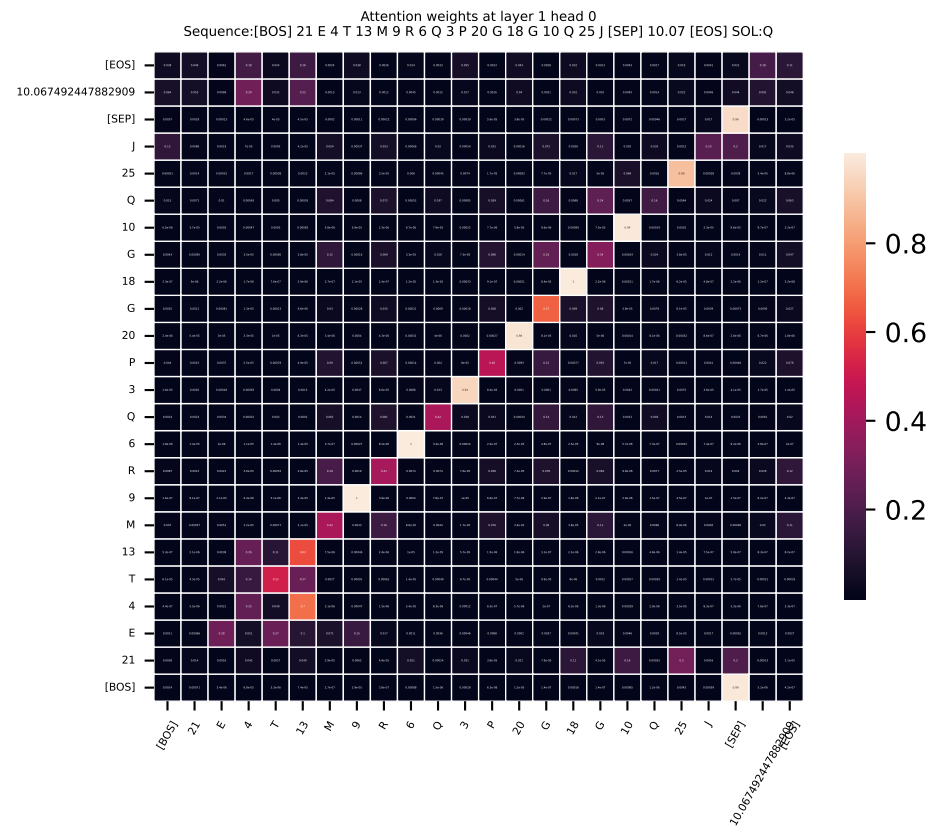
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[EOS]
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[SEP]
J
25
Q
10
G
18
G
20
P
3
Q
6
R
9
M
13
T
4
E
21
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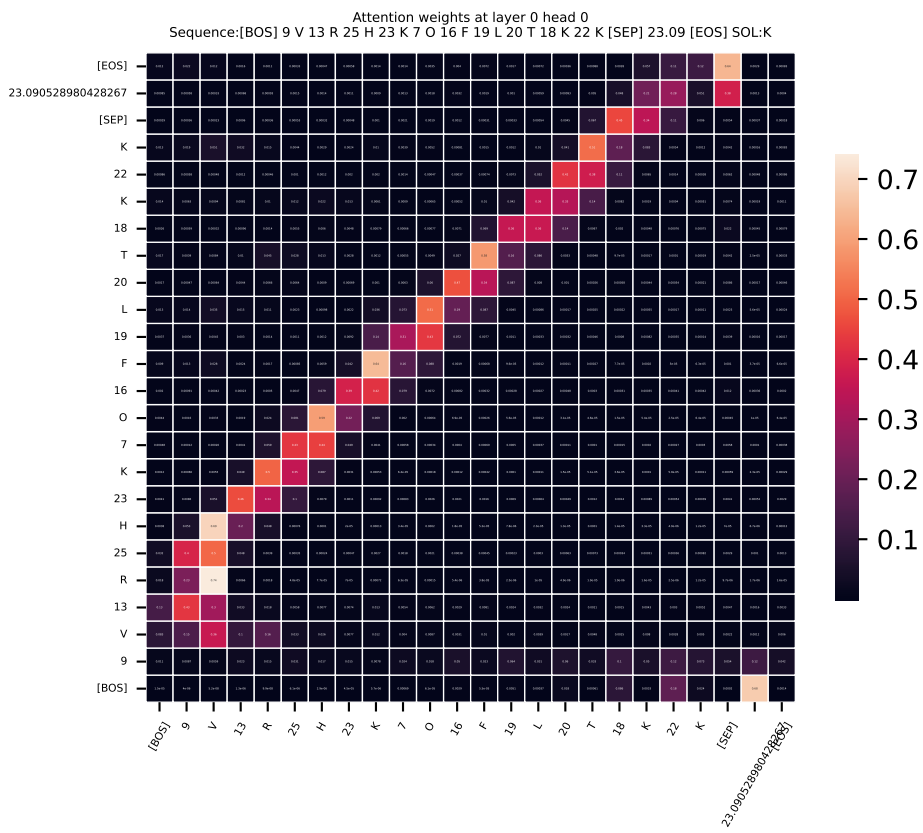
Attention weights at layer 0 head 0
Sequence:[BOS] 9 V 13 R 25 H 23 K 7 O 16 F 19 L 20 T 18 K 22 K [SEP] 23.09 [EOS] SOL:K
[EOS]
23.090528980428267
[SEP]
K
22
K
18
T
20
L
19
F
16
O
7
K
23
H
25
R
13
V
9
[BOS]
[BOS] 9 V 13 R 25 H 23 K 7 O 16 F 19 L 20 T 18 K 22 K [SEP] 23.09 [EOS] SOL:K
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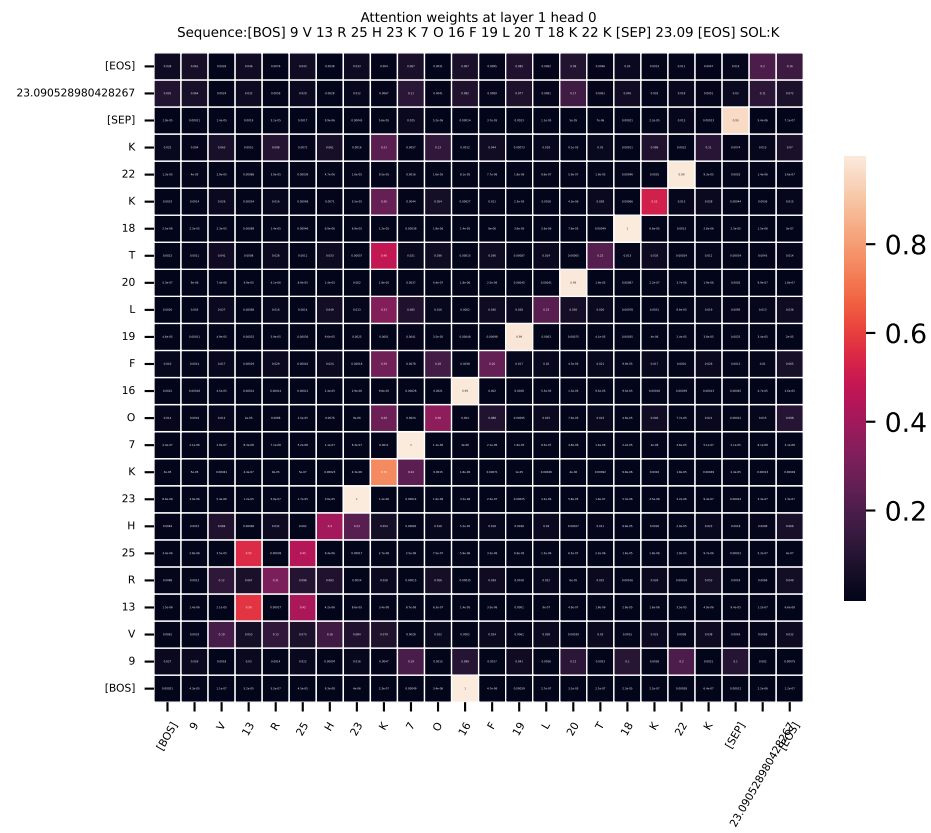
0.1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23.090528980428267
[SEP]
K
22
K
18
T
20
L
19
F
16
O
7
K
23
H
25
R
13
V
9
[BOS]
[BOS] 9 V 13 R 25 H 23 K 7 O 16 F 19 L 20 T 18 K 22 K [SEP] 23.09 [EOS] SOL:K
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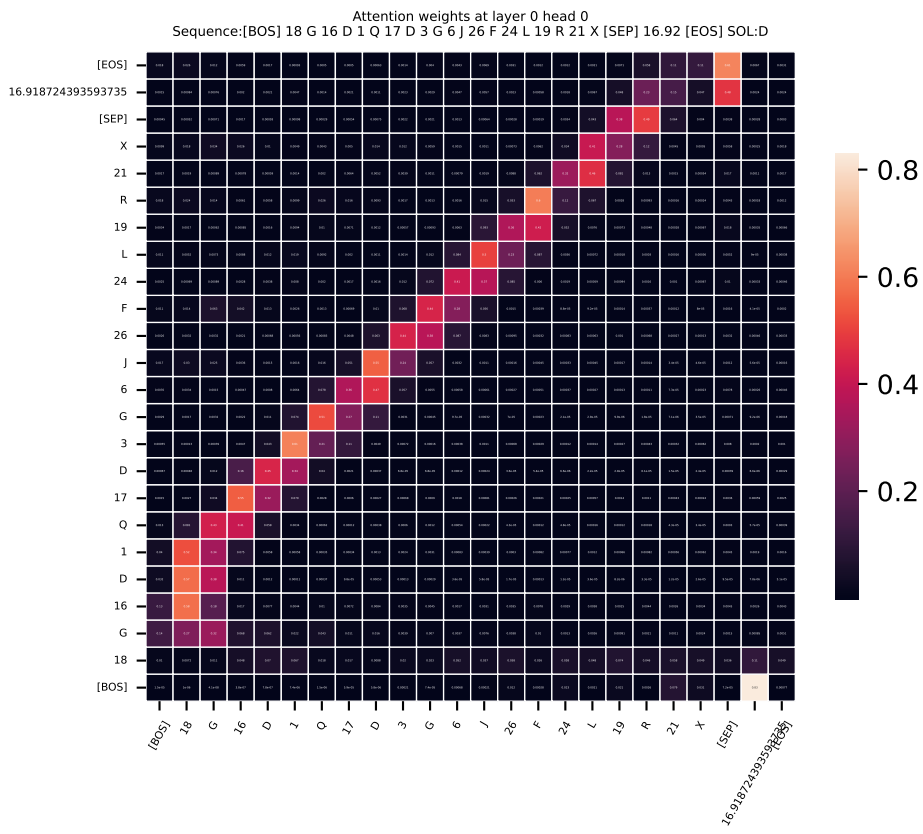
0.6
0.4
0.2


Attention weights at layer 0 head 0
Sequence:[BOS] 18 G 16 D 1 Q 17 D 3 G 6 J 26 F 24 L 19 R 21 X [SEP] 16.92 [EOS] SOL:D
[EOS]
16.918724393593735
[SEP]
X
21
R
19
L
24
F
26
J
6
G
3
D
17
Q
1
D
16
G
18
[BOS]
[BOS]
18
G
16
D
1
Q
17
D
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G
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J
26
F
24
L
19
R
21
X
[SEP]
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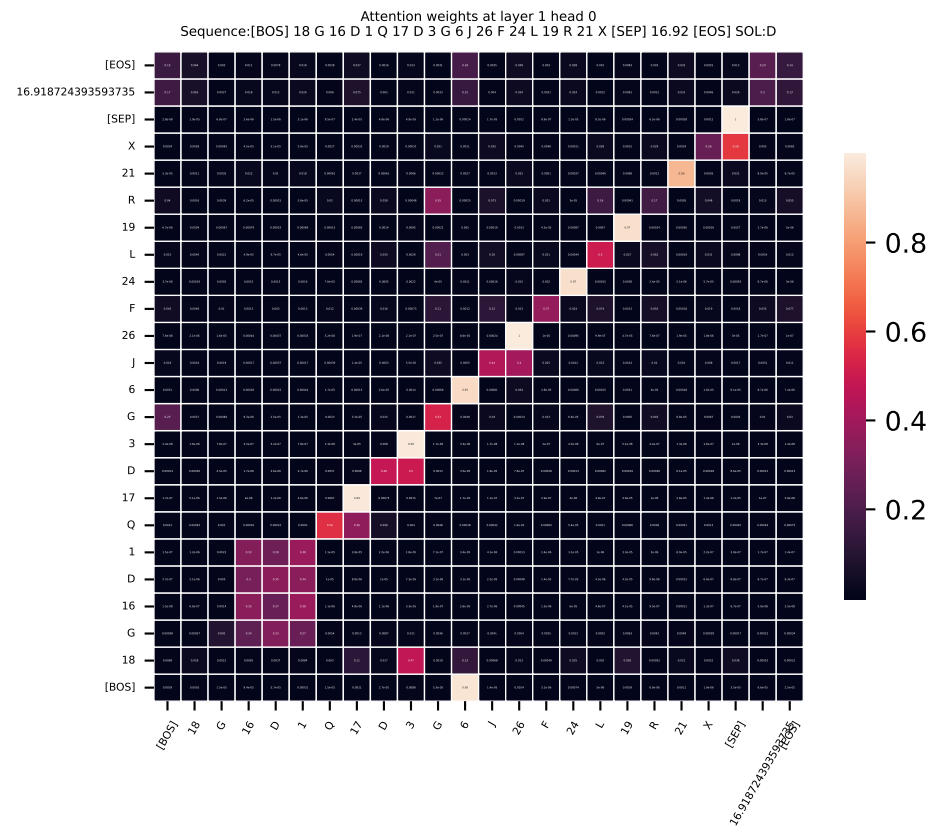
Attention weights at layer 1 head 0
Sequence:[BOS] 18 G 16 D 1 Q 17 D 3 G 6 J 26 F 24 L 19 R 21 X [SEP] 16.92 [EOS] SOL:D
[EOS]
16.918724393593735
[SEP]
X
21
R
19
L
24
F
26
J
6
G
3
D
17
Q
1
D
16
G
18
[BOS]
[BOS]
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G
16
D
1
Q
17
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R
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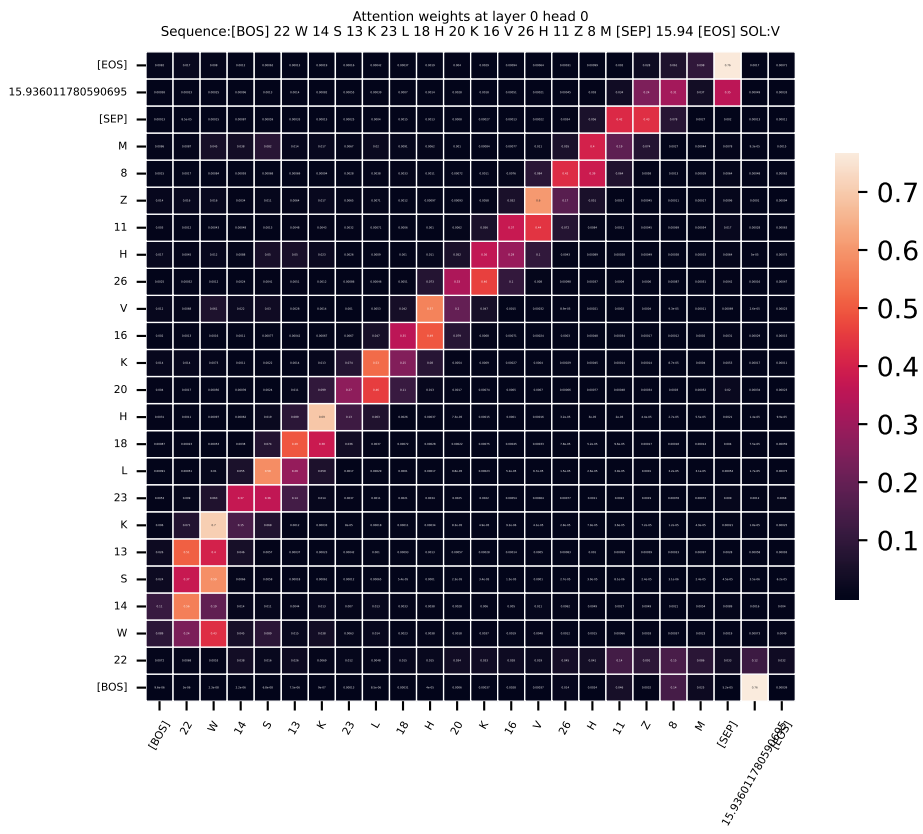
Attention weights at layer 0 head 0
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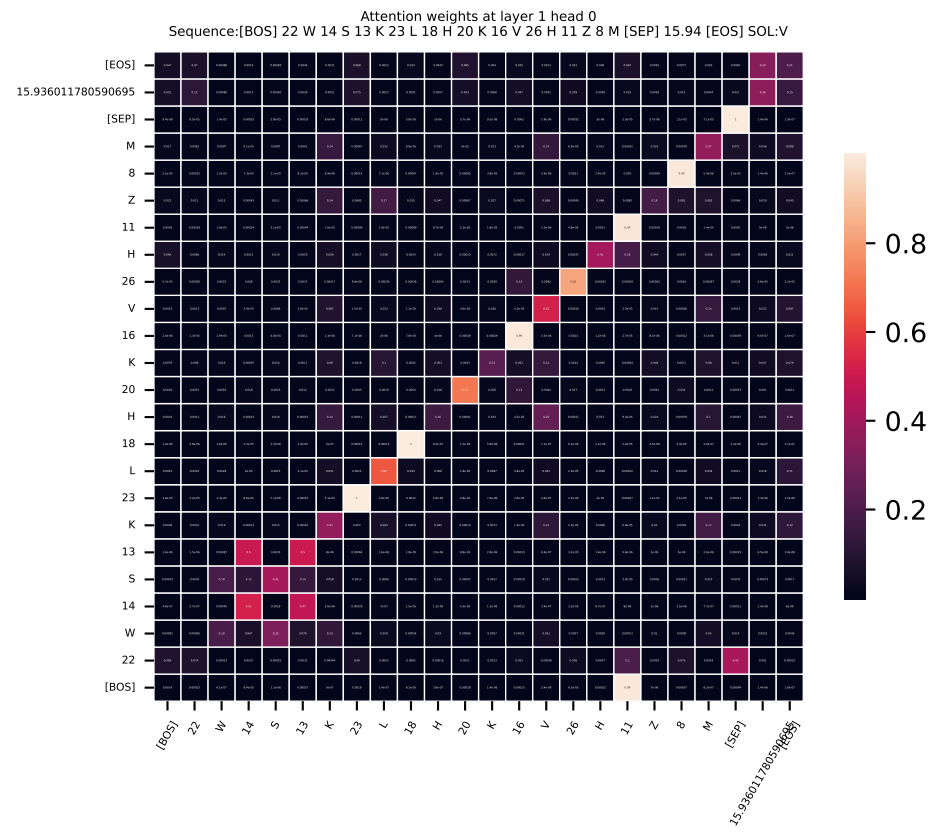
[EOS]
15.936011780590695
[SEP]
M
8
Z
11
H
26
V
16
K
20
H
18
L
23
K
13
S
14
W
22
[BOS]
[BOS] 22 W 14 S 13 K 23 L 18 H 20 K 16 V 26 H 11 Z 8 M [SEP] 15.936011780590695 [EOS]
0.7
0.6
0.5
0.4
0.3
0.2
0.1


Attention weights at layer 1 head 0
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[EOS]
15.936011780590695
[SEP]
M
8
Z
11
H
26
V
16
K
20
H
18
L
23
K
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S
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W
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[BOS]
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0.4
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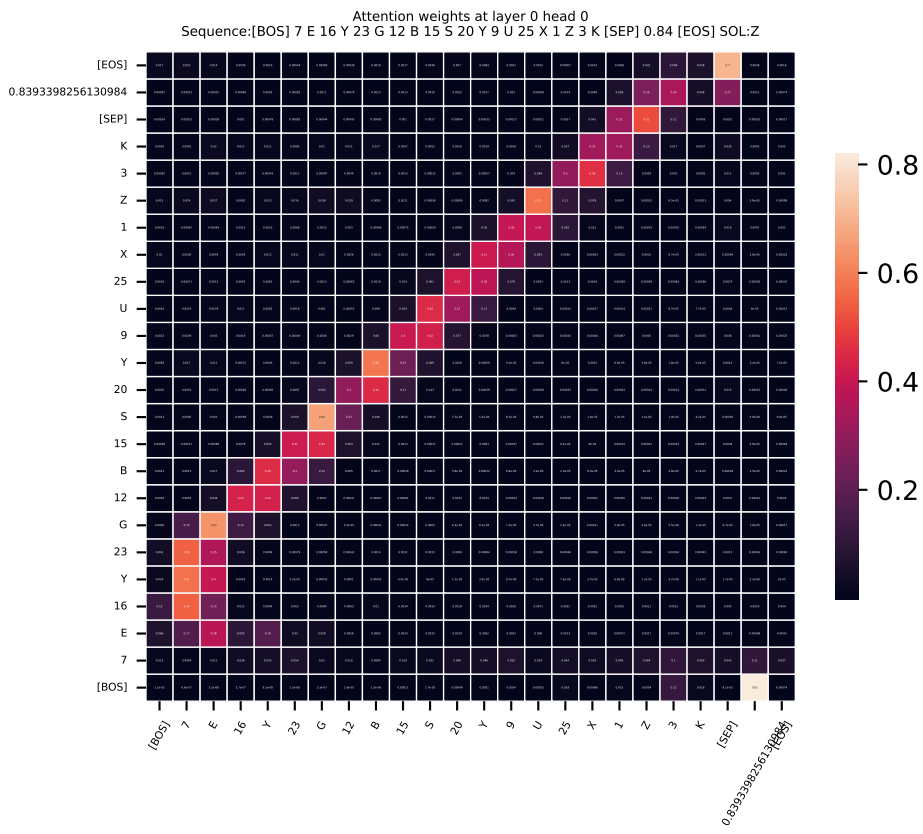
Attention weights at layer 0 head 0
Sequence:[BOS] 7 E 16 Y 23 G 12 B 15 S 20 Y 9 U 25 X 1 Z 3 K [SEP] 0.84 [EOS] SOL:Z
[EOS]
0.8393398256130984
[SEP]
K
3
Z
1
X
25
U
9
Y
20
S
15
B
12
G
23
Y
16
E
7
[BOS]
[BOS]
7
E
16
Y
23
G
12
B
15
S
20
Y
9
U
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X
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Z
3
K
[SEP]
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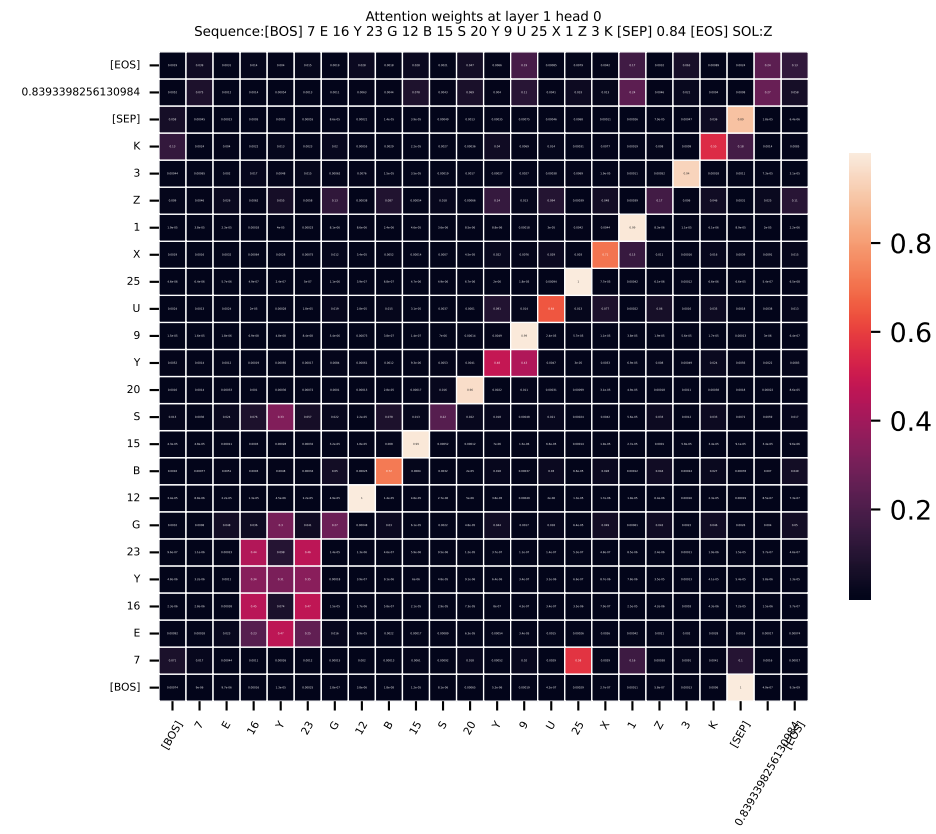
0.6
0.4
0.2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0.8393398256130984
[SEP]
K
3
Z
1
X
25
U
9
Y
20
S
15
B
12
G
23
Y
16
E
7
[BOS]
[BOS]
7
E
16
Y
23
G
12
B
15
S
20
Y
9
U
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X
1
Z
3
K
[SEP]
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[EOS]
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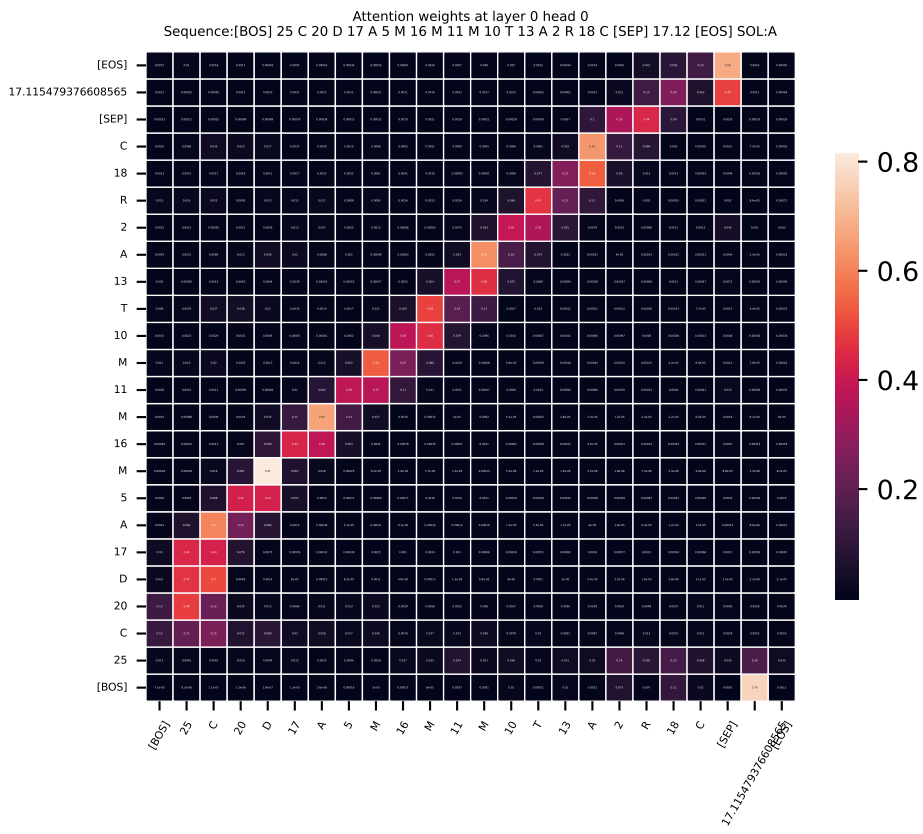
0.6
0.4
0.2


Attention weights at layer 0 head 0
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[EOS]
17.115479376608565
[SEP]
C
18
R
2
A
13
T
10
M
11
M
16
M
5
A
17
D
20
C
25
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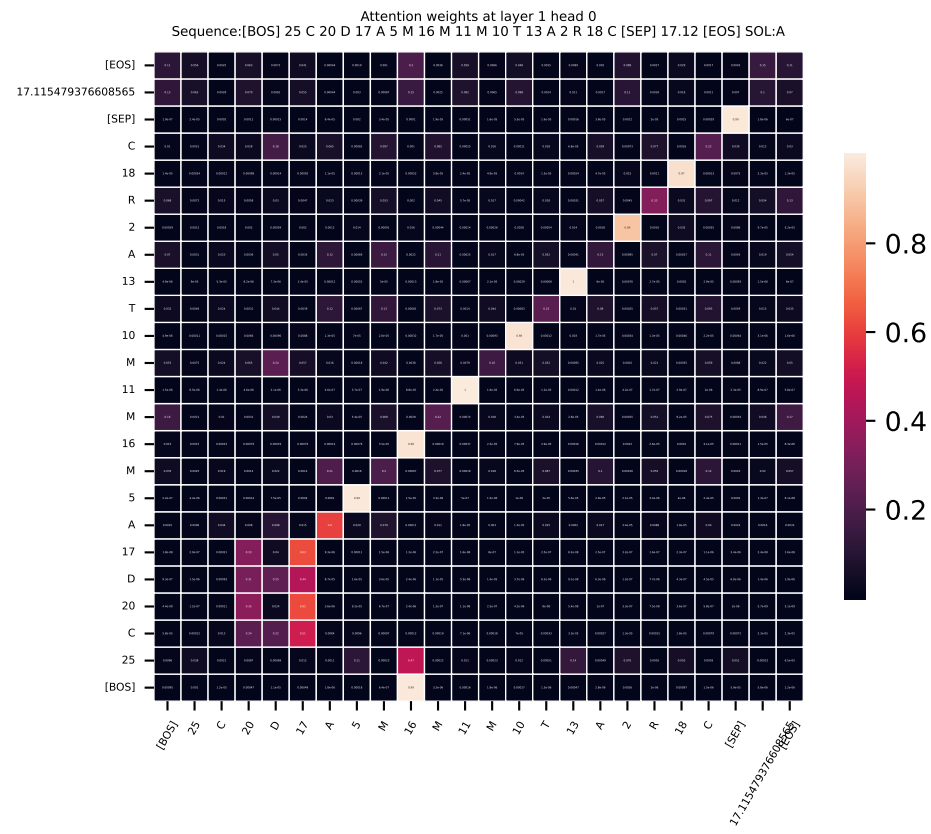
0.8
0.6
0.4
0.2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[SEP]
C
18
R
2
A
13
T
10
M
11
M
16
M
5
A
17
D
20
C
25
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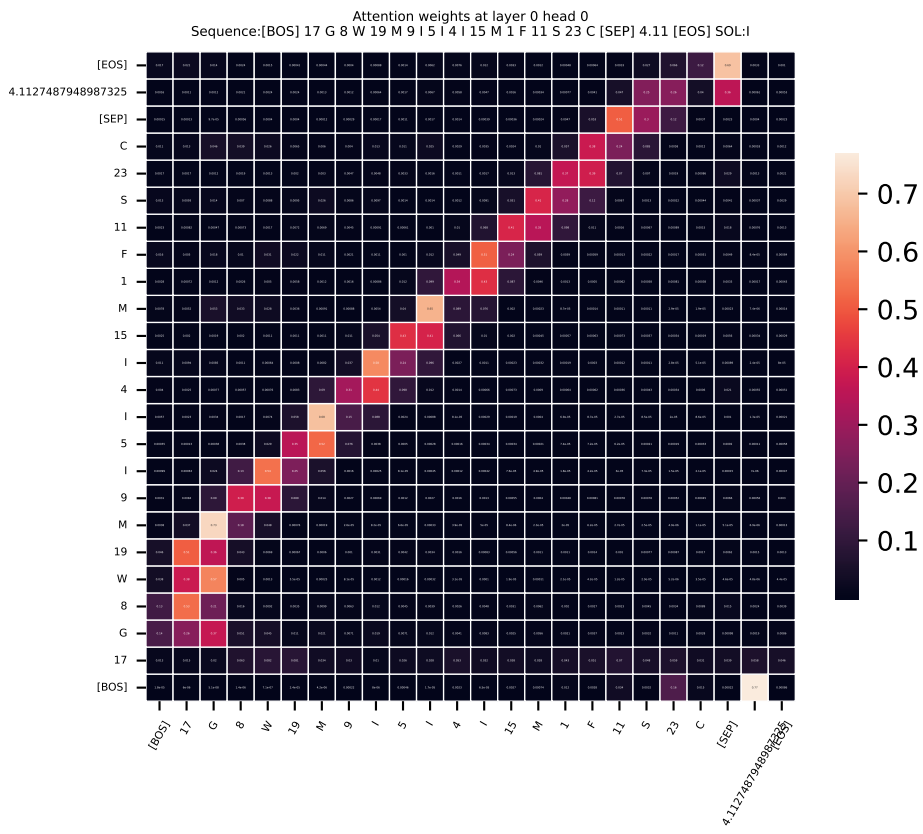
Attention weights at layer 0 head 0
Sequence:[BOS] 17 G 8 W 19 M 9 I 5 I 4 I 15 M 1 F 11 S 23 C [SEP] 4.11 [EOS] SOL:I
[EOS]
4.1127487948987325
[SEP]
C
23
S
11
F
1
M
15
I
4
I
5
I
9
M
19
W
8
G
17
[BOS]
[BOS]
17
G
8
W
19
M
9
I
5
I
4
I
15
M
1
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S
23
C
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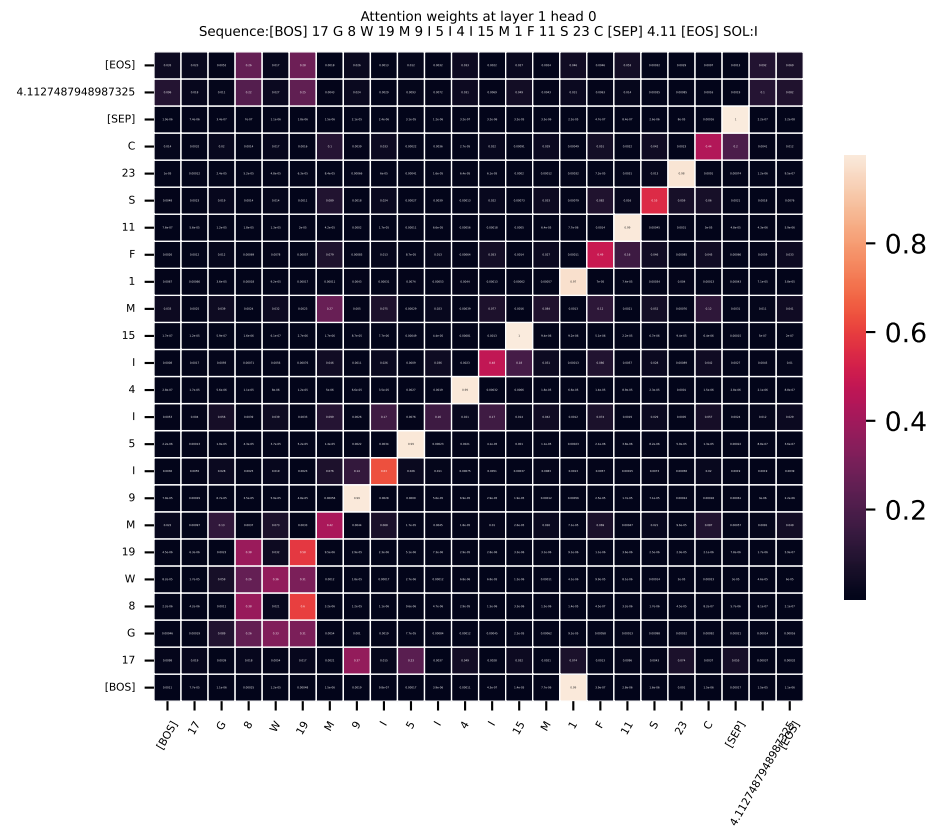
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[EOS]
4.1127487948987325
[SEP]
C
23
S
11
F
1
M
15
I
4
I
5
I
9
M
19
W
8
G
17
[BOS]
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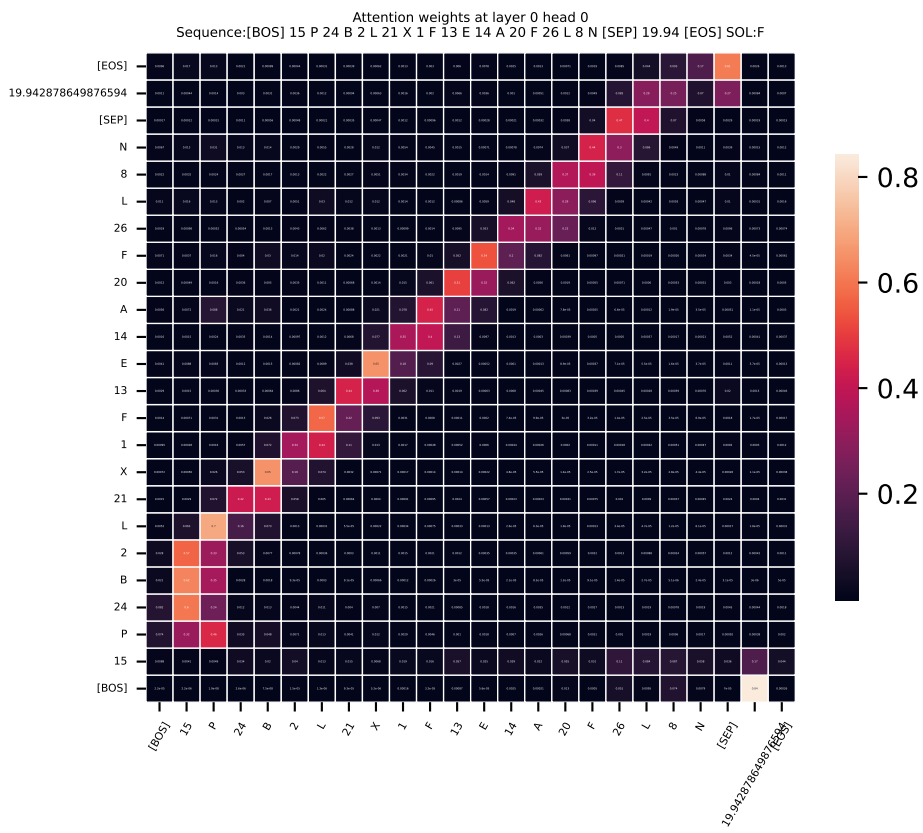
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[EOS]
19.942878649876594
[SEP]
N
8
L
26
F
20
A
14
E
13
F
1
X
21
L
2
B
24
P
15
[BOS]
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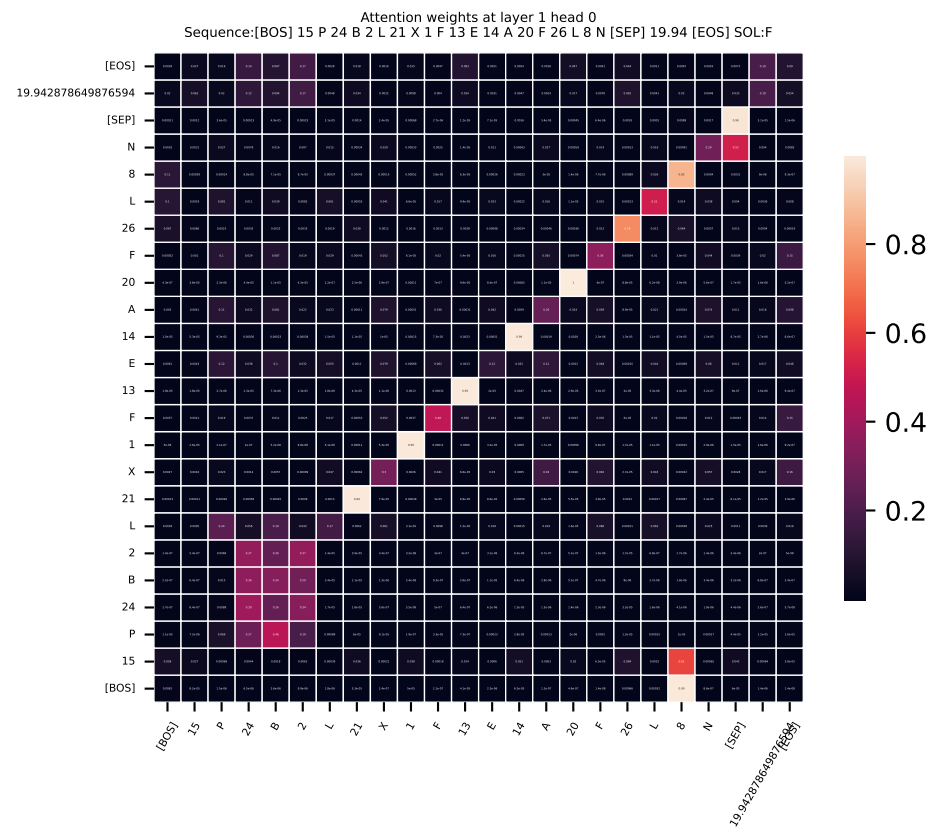
0.4
0.2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[EOS]
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[SEP]
N
8
L
26
F
20
A
14
E
13
F
1
X
21
L
2
B
24
P
15
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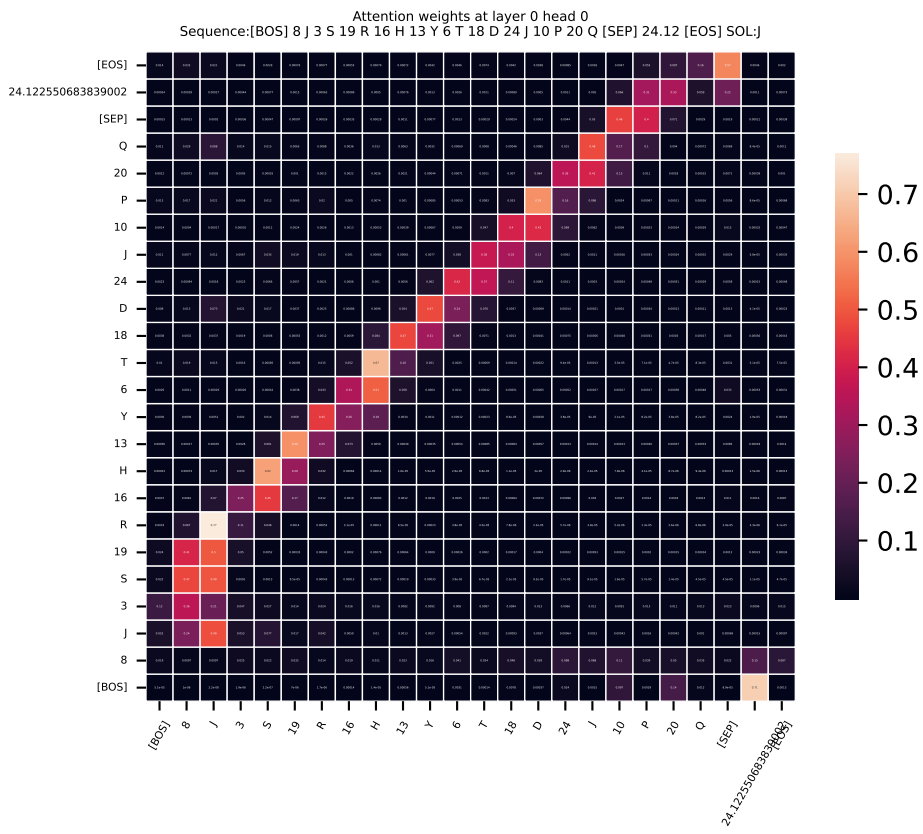
Attention weights at layer 0 head 0
Sequence:[BOS] 8 J 3 S 19 R 16 H 13 Y 6 T 18 D 24 J 10 P 20 Q [SEP] 24.12 [EOS] SOL:J
[EOS]
24.122550683839002
[SEP]
Q
20
P
10
J
24
D
18
T
6
Y
13
H
16
R
19
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J
8
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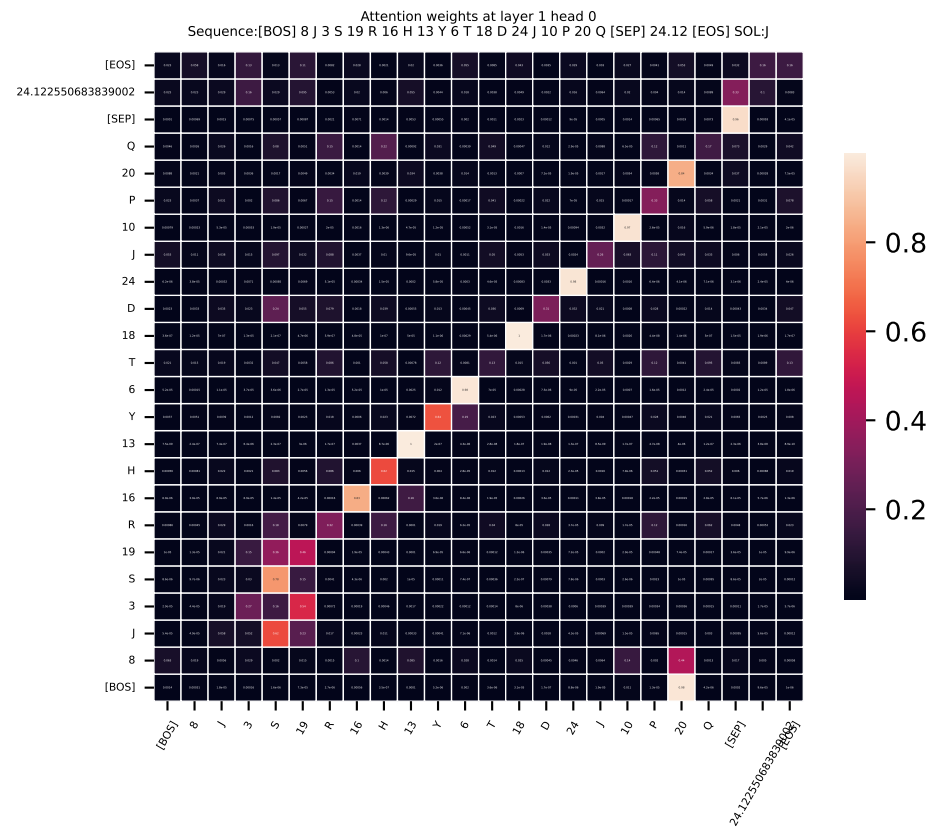
Attention weights at layer 1 head 0
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[EOS]
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Q
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P
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J
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D
18
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R
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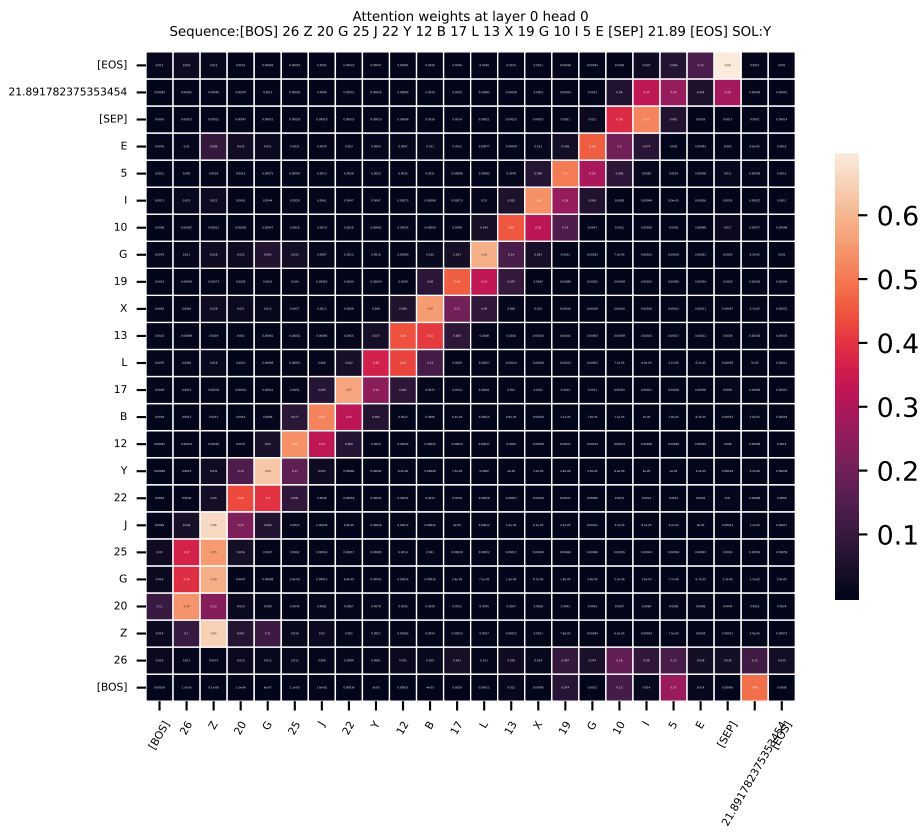
Attention weights at layer 0 head 0
Sequence:[BOS] 26 Z 20 G 25 J 22 Y 12 B 17 L 13 X 19 G 10 I 5 E [SEP] 21.89 [EOS] SOL:Y
[EOS]
21.891782375353454
[SEP]
E
5
I
10
G
19
X
13
L
17
B
12
Y
22
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25
G
20
Z
26
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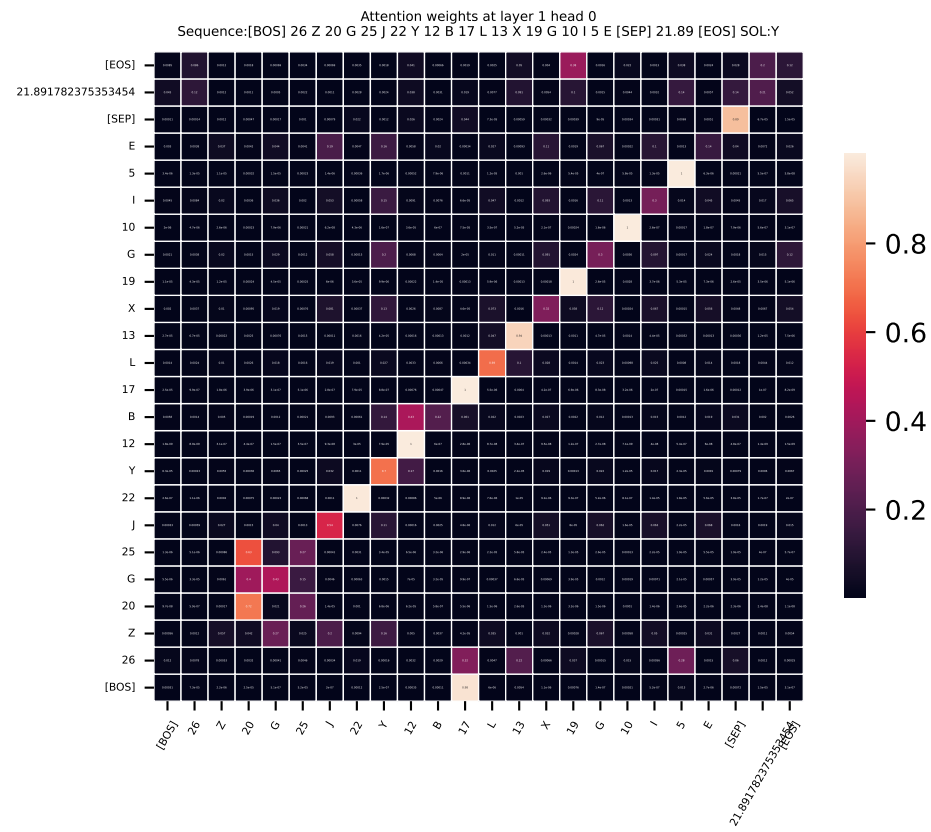
Attention weights at layer 1 head 0
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[EOS]
21.891782375353454
[SEP]
E
5
I
10
G
19
X
13
L
17
B
12
Y
22
J
25
G
20
Z
26
[BOS]
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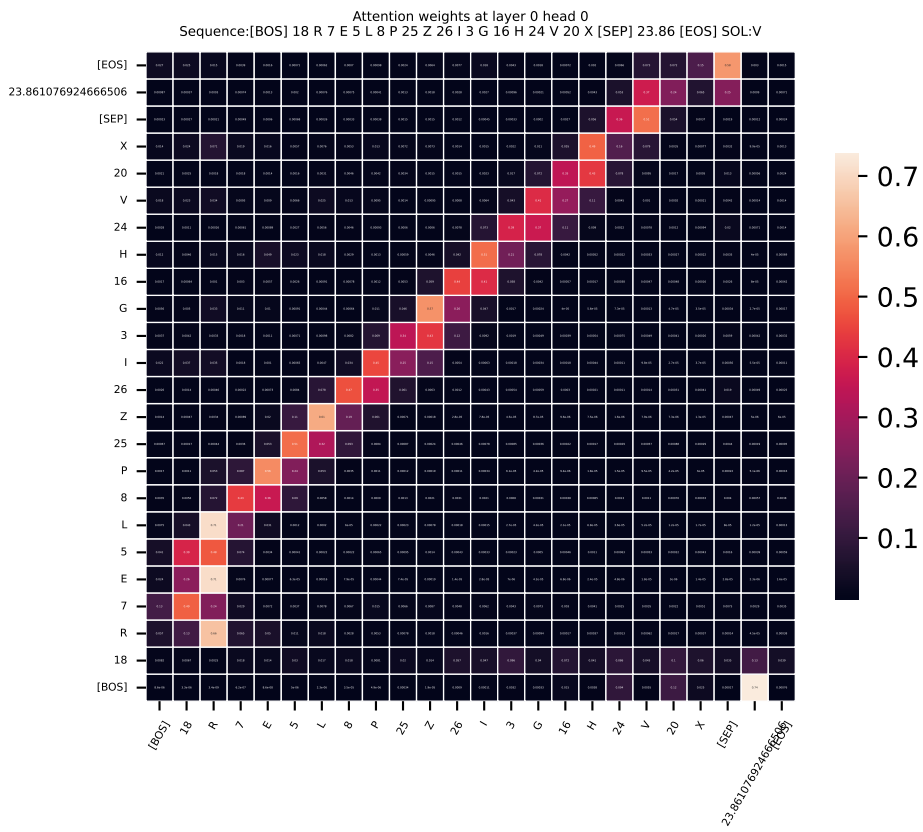
0.2


Attention weights at layer 0 head 0
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[EOS]
23.861076924666506
[SEP]
X
20
V
24
H
16
G
3
I
26
Z
25
P
8
L
5
E
7
R
18
[BOS]
0.7
0.6
0.5
0.4
0.3
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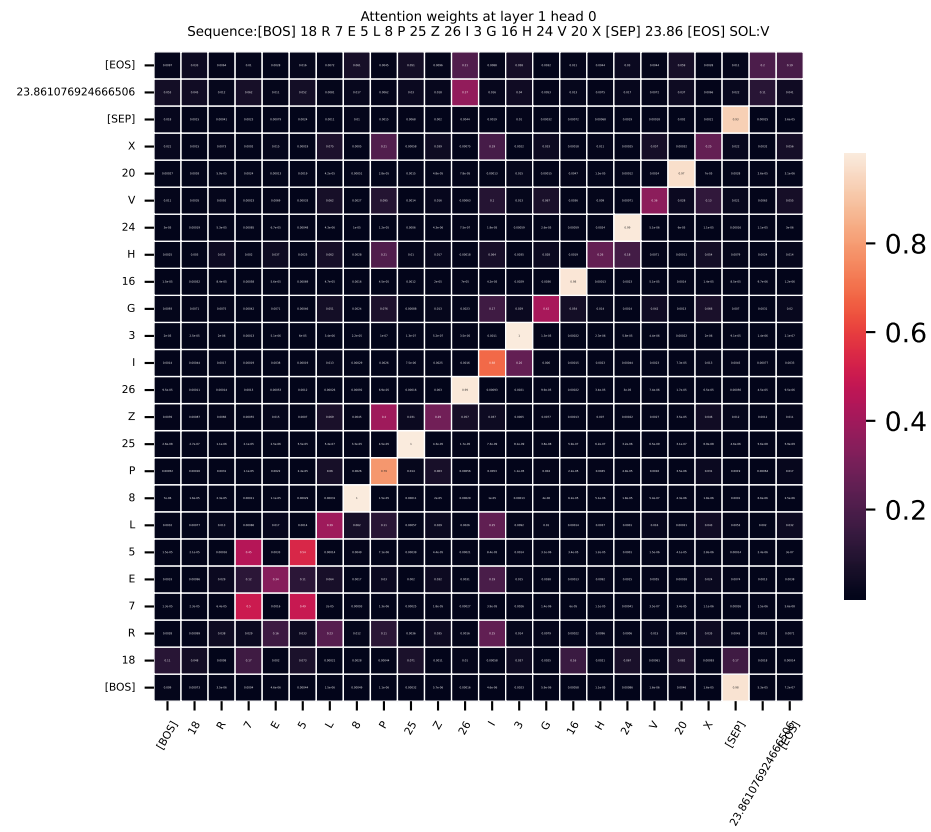
0.1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[EOS]
23.861076924666506
[SEP]
X
20
V
24
H
16
G
3
I
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Z
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P
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L
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E
7
R
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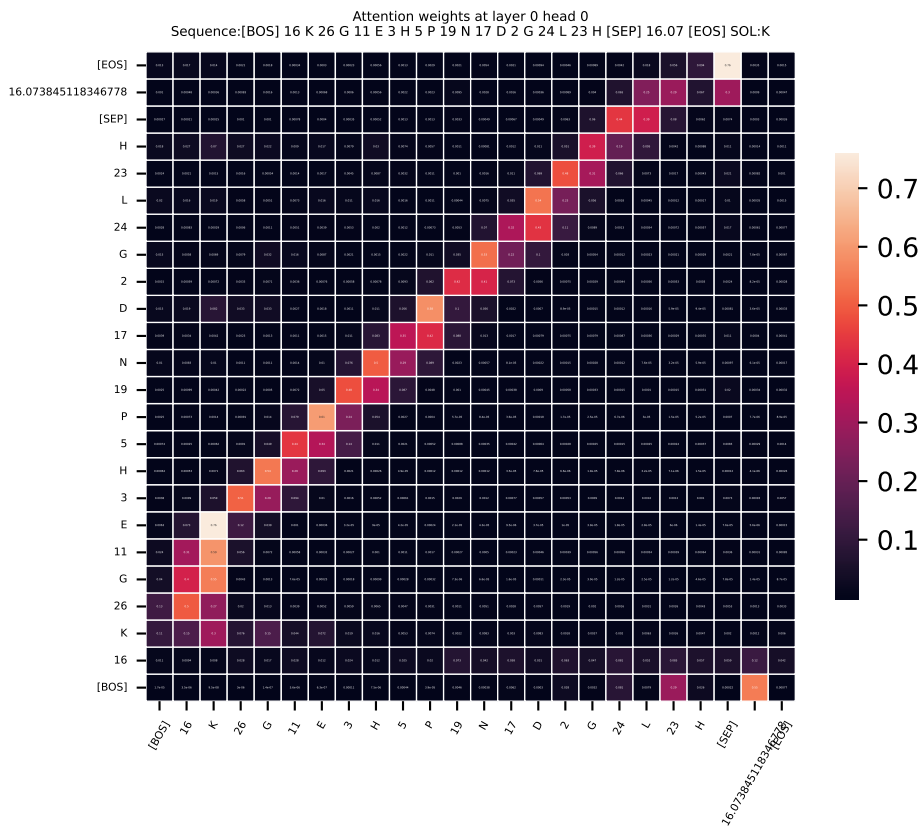
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[EOS]
16.073845118346778
[SEP]
H
23
L
24
G
2
D
17
N
19
P
5
H
3
E
11
G
26
K
16
[BOS]
[BOS] 16 K 26 G 11 E 3 H 5 P 19 N 17 D 2 G 24 L 23 H [SEP] 16.07 [EOS]
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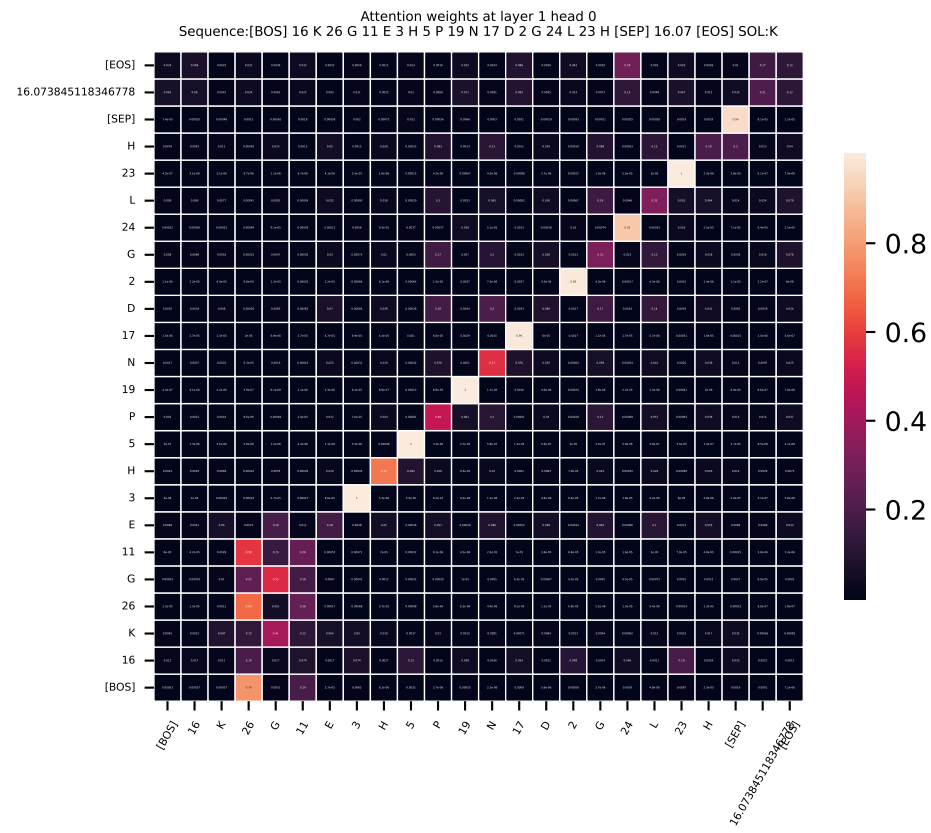
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[EOS]
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[SEP]
H
23
L
24
G
2
D
17
N
19
P
5
H
3
E
11
G
26
K
16
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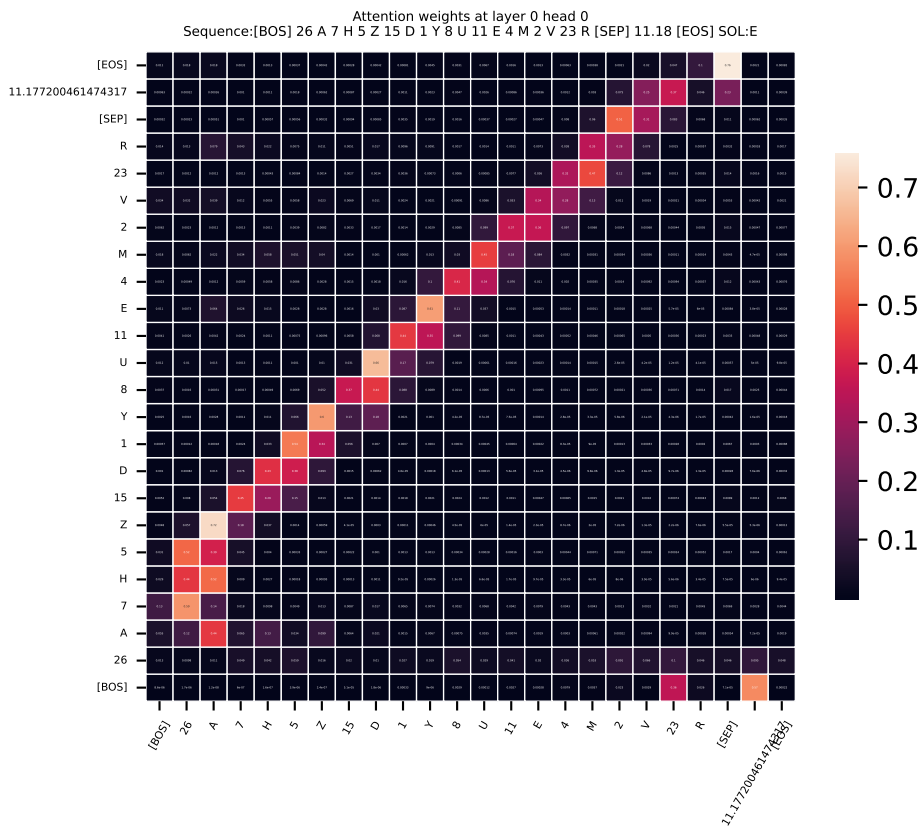
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[EOS]
11.177200461474317
[SEP]
R
23
V
2
M
4
E
11
U
8
Y
1
D
15
Z
5
H
7
A
26
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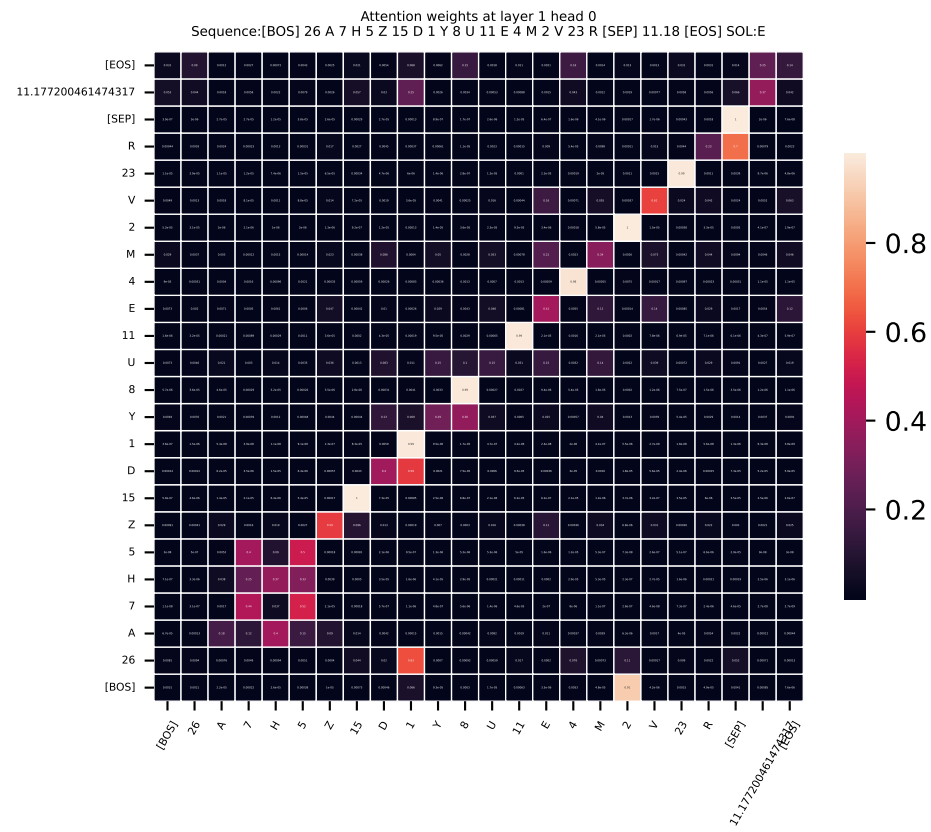
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[EOS]
11.177200461474317
[SEP]
R
23
V
2
M
4
E
11
U
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Y
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D
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Z
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H
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A
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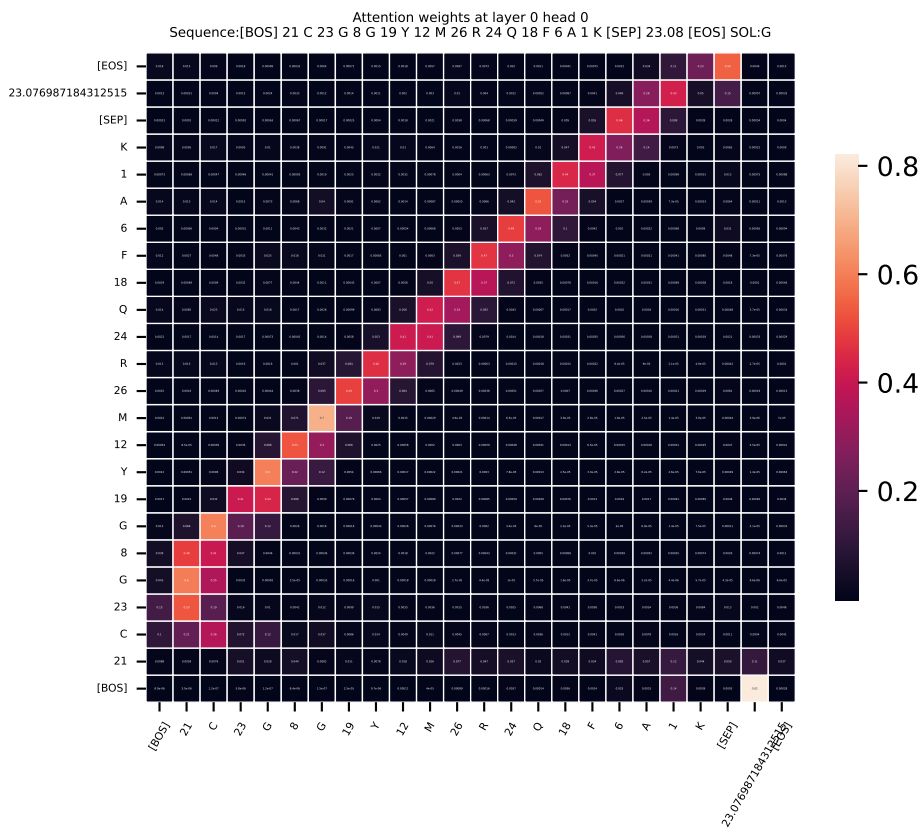
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[EOS]
23.076987184312515
[SEP]
K
1
A
6
F
18
Q
24
R
26
M
12
Y
19
G
8
G
23
C
21
[BOS]
[BOS] 21 C 23 G 8 G 19 Y 12 M 26 R 24 Q 18 F 6 A 1 K [SEP] 23.076987184312515 [EOS] SOL:G
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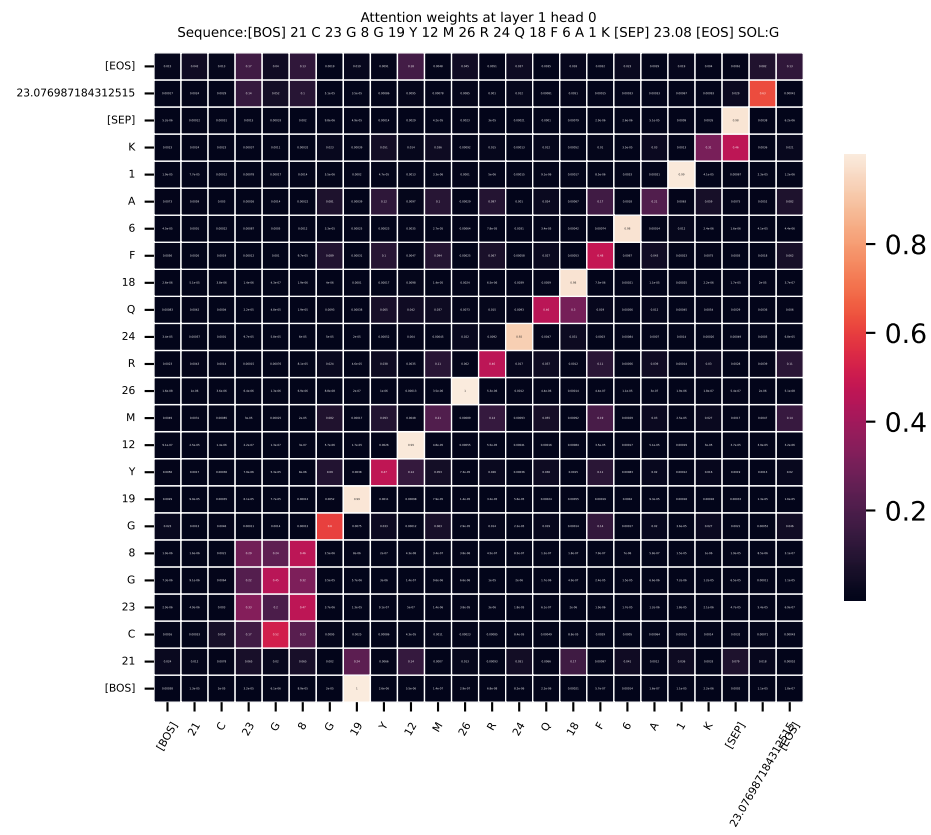
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[EOS]
23.076987184312515
[SEP]
K
1
A
6
F
18
Q
24
R
26
M
12
Y
19
G
8
G
23
C
21
[BOS]
[BOS] 21 C 23 G 8 G 19 Y 12 M 26 R 24 Q 18 F 6 A 1 K [SEP] 23.076987184312515 [EOS] SOL:G
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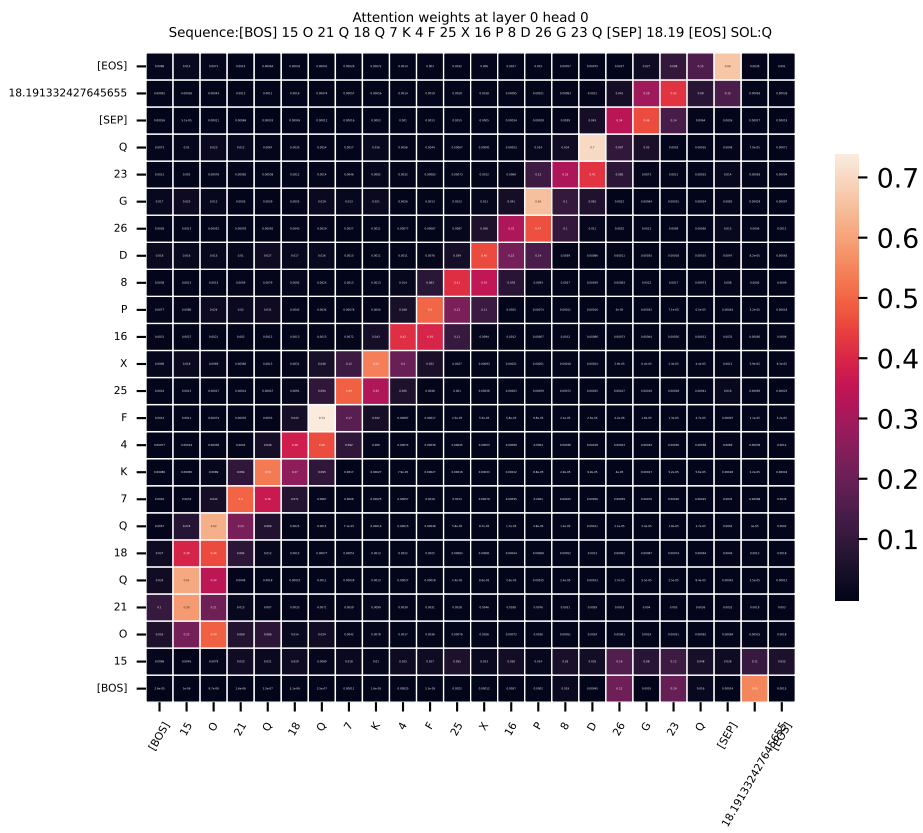
0.2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[EOS]
18.191332427645655
[SEP]
Q
23
G
26
D
8
P
16
X
25
F
4
K
7
Q
18
Q
21
O
15
[BOS]
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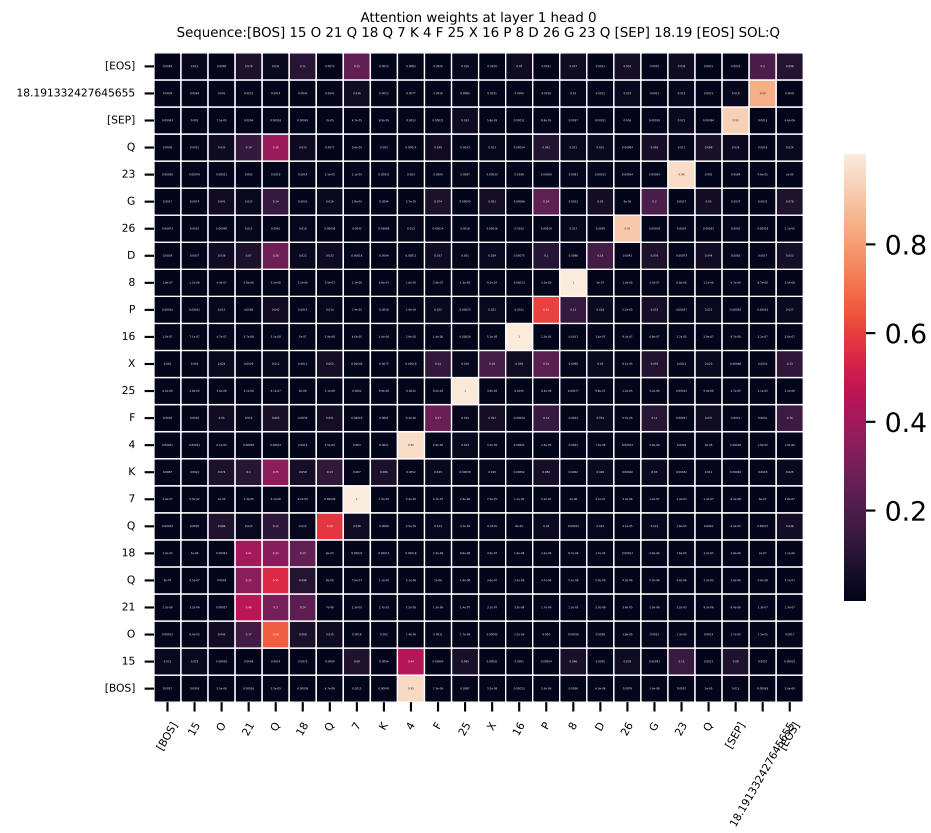
0.1


Attention weights at layer 1 head 0
Sequence:[BOS] 15 O 21 Q 18 Q 7 K 4 F 25 X 16 P 8 D 26 G 23 Q [SEP] 18.19 [EOS] SOL:Q
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18.191332427645655
[SEP]
Q
23
G
26
D
8
P
16
X
25
F
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K
7
Q
18
Q
21
O
15
[BOS]
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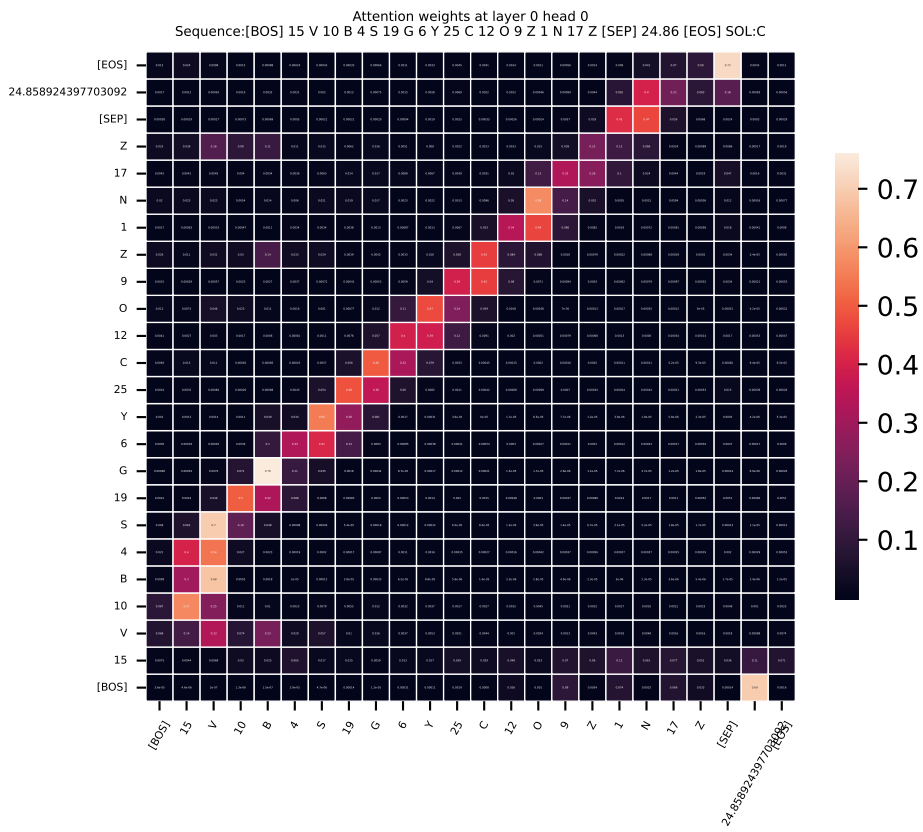
Attention weights at layer 0 head 0
Sequence:[BOS] 15 V 10 B 4 S 19 G 6 Y 25 C 12 O 9 Z 1 N 17 Z [SEP] 24.86 [EOS] SOL:C
[EOS]
24.858924397703092
[SEP]
Z
17
N
1
Z
9
O
12
C
25
Y
6
G
19
S
4
B
10
V
15
[BOS]
[BOS] 15 V 10 B 4 S 19 G 6 Y 25 C 12 O 9 Z 1 N 17 Z [SEP] 24.858924397703092 [EOS]
0.7
0.6
0.5
0.4
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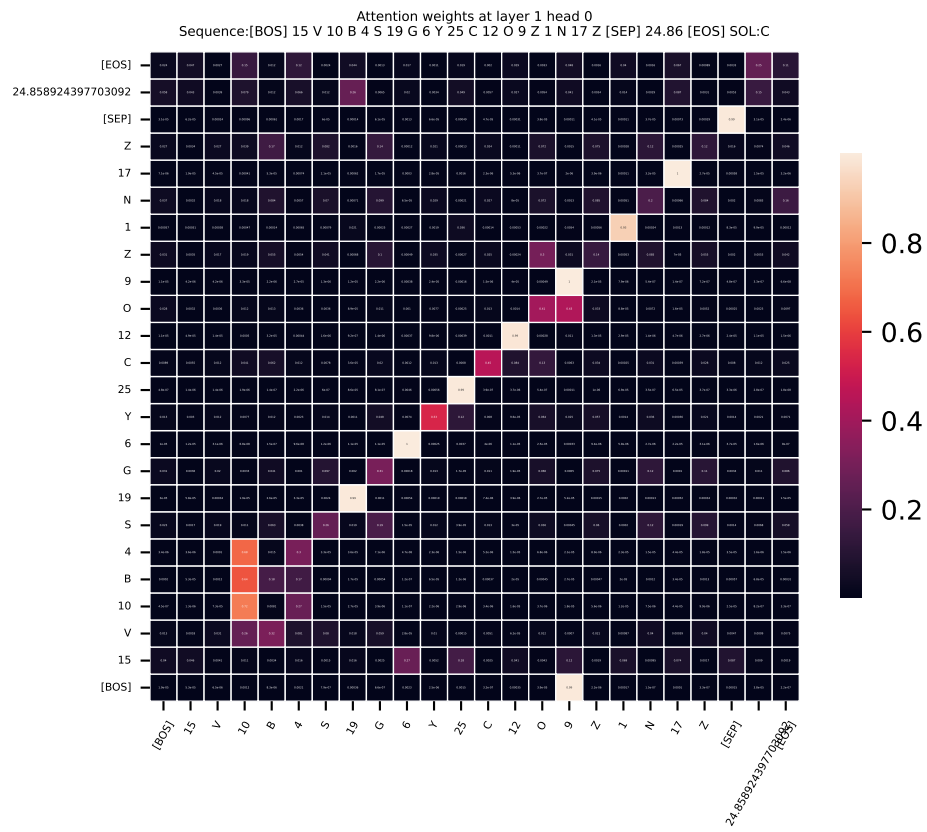
0.2
0.1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[EOS]
24.858924397703092
[SEP]
Z
17
N
1
Z
9
O
12
C
25
Y
6
G
19
S
4
B
10
V
15
[BOS]
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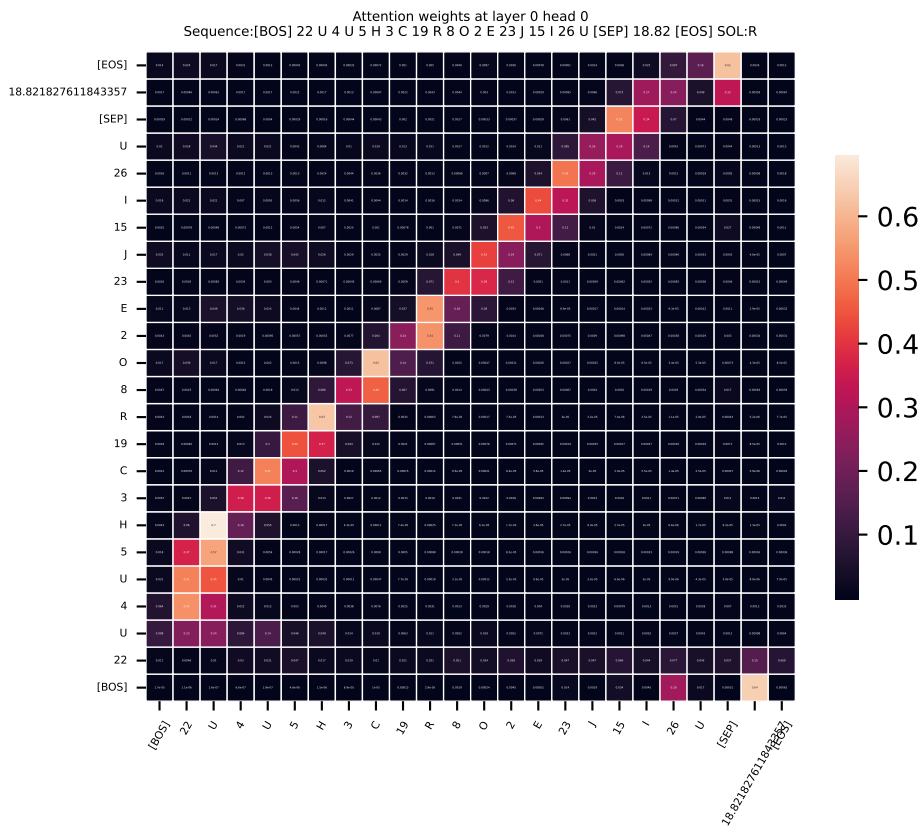
Attention weights at layer 0 head 0
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[EOS]
18.821827611843357
[SEP]
U
26
I
15
J
23
E
2
O
8
R
19
C
3
H
5
U
4
U
22
[BOS]
[BOS] 22 U 4 U 5 H 3 C 19 R 8 O 2 E 23 J 15 I 26 U [SEP]
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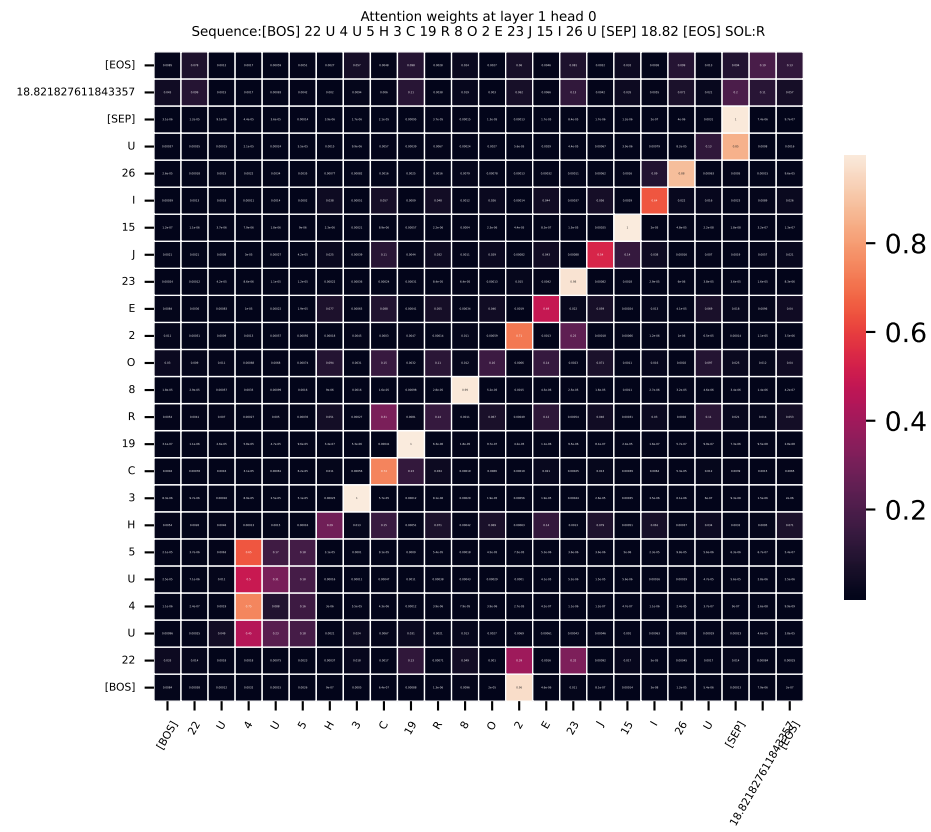
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[EOS]
18.821827611843357
[SEP]
U
26
I
15
J
23
E
2
O
8
R
19
C
3
H
5
U
4
U
22
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[BOS] 22 U 4 U 5 H 3 C 19 R 8 O 2 E 23 J 15 I 26 U [SEP]
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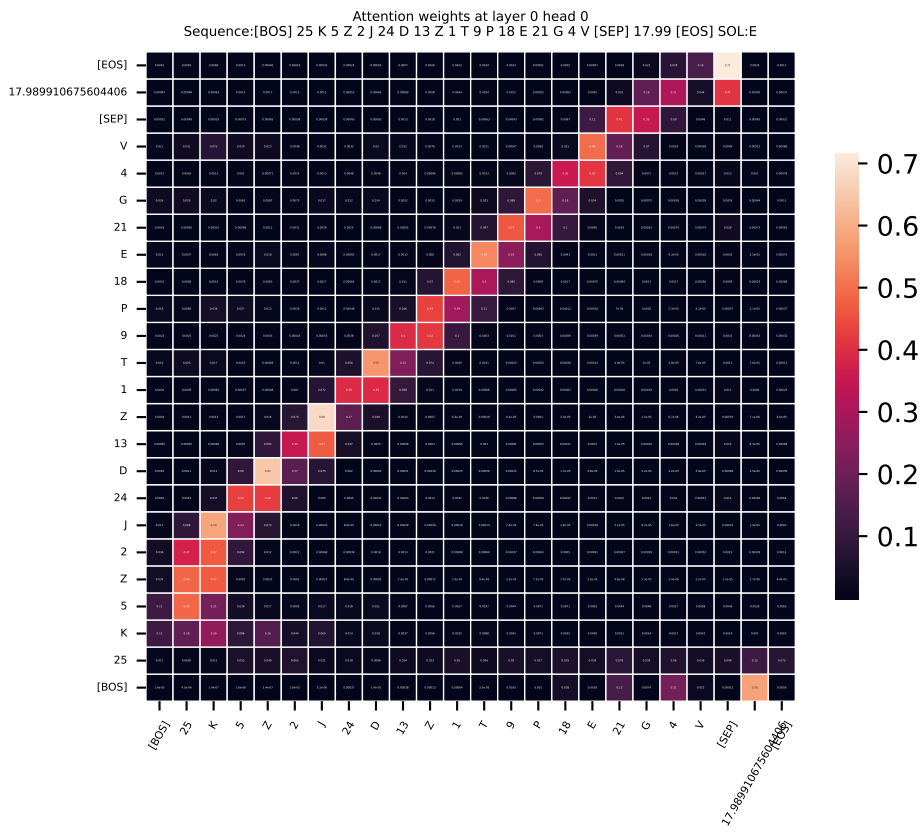
0.6
0.4
0.2


Attention weights at layer 0 head 0
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[EOS]
17.989910675604406
[SEP]
V
4
G
21
E
18
P
9
T
1
Z
13
D
24
J
2
Z
5
K
25
[BOS]
[BOS] 25 K 5 Z 2 J 24 D 13 Z 1 T 9 P 18 E 21 G 4 V [SEP] 17.99 [EOS] SOL:E
0.7
0.6
0.5
0.4
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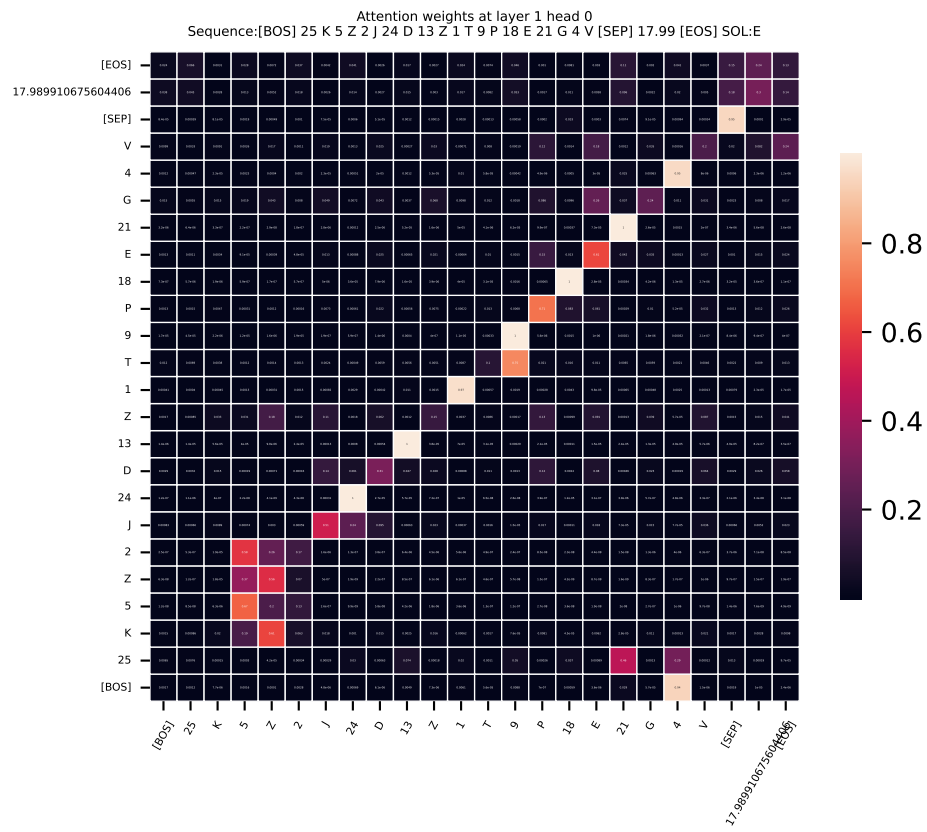
0.2
0.1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[SEP]
V
4
G
21
E
18
P
9
T
1
Z
13
D
24
J
2
Z
5
K
25
[BOS]
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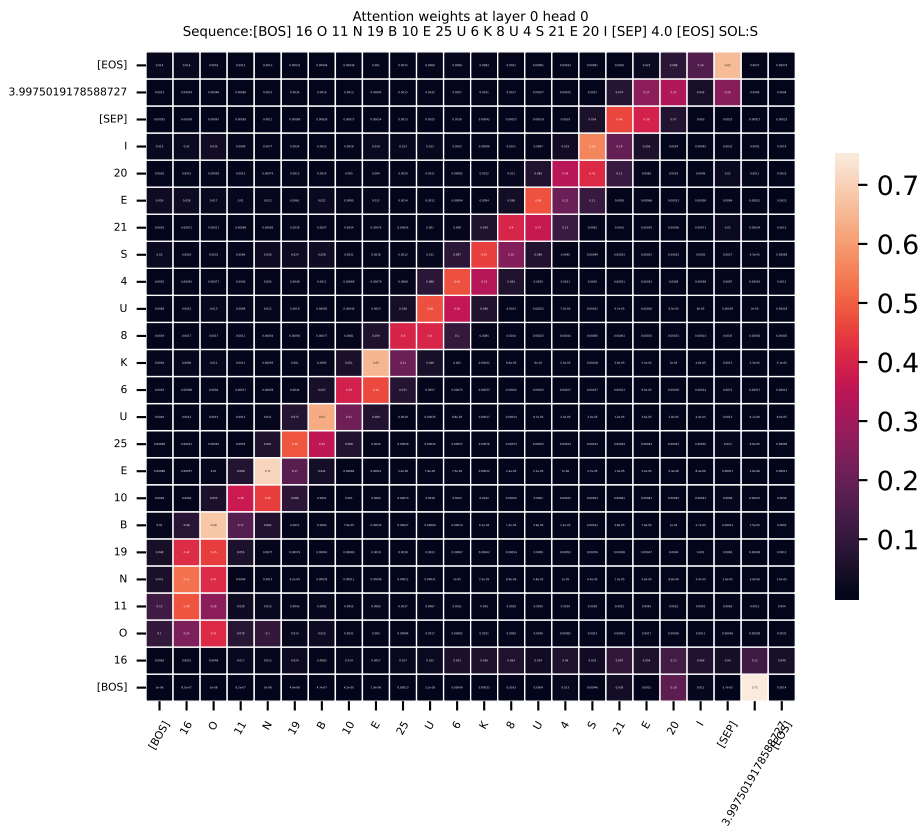
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[EOS]
3.9975019178588727
[SEP]
I
20
E
21
S
4
U
8
K
6
U
25
E
10
B
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N
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O
16
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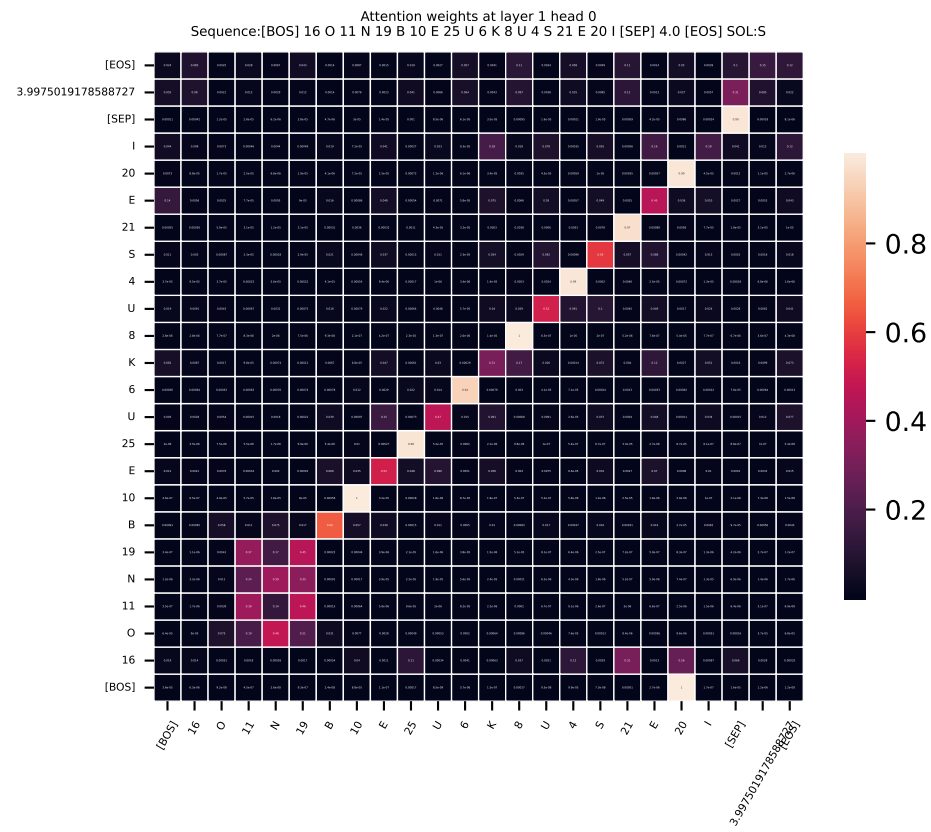
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[SEP]
I
20
E
21
S
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U
8
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O
16
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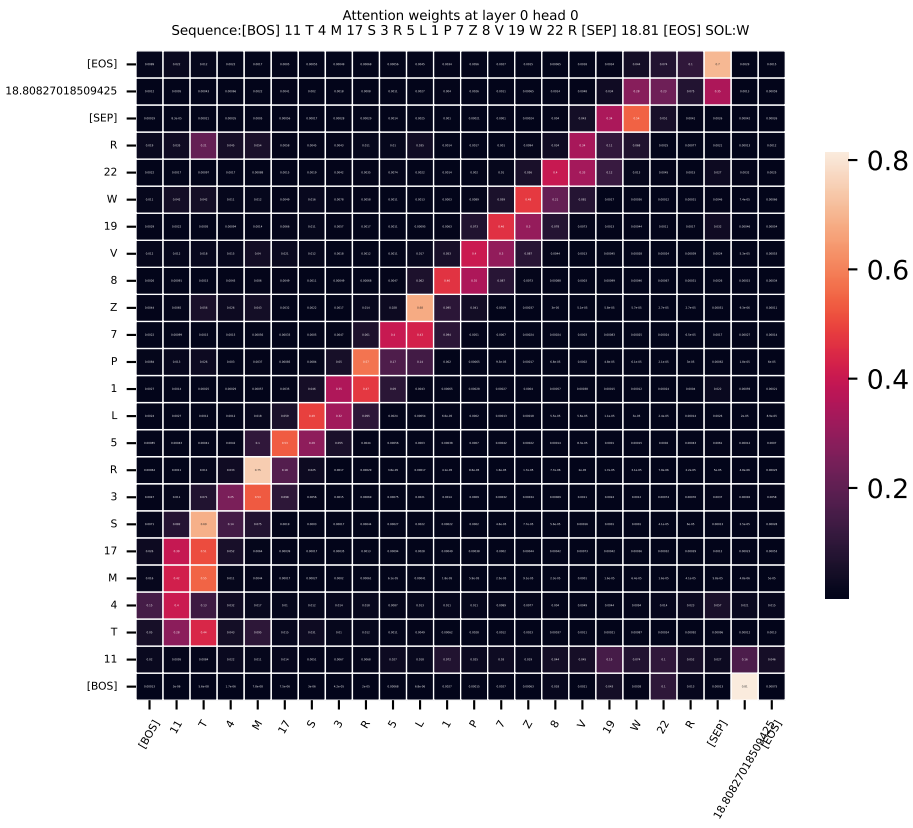
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[SEP]
R
22
W
19
V
8
Z
7
P
1
L
5
R
3
S
17
M
4
T
11
[BOS]
[BOS]
11
T
4
M
17
S
3
R
5
L
1
P
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R
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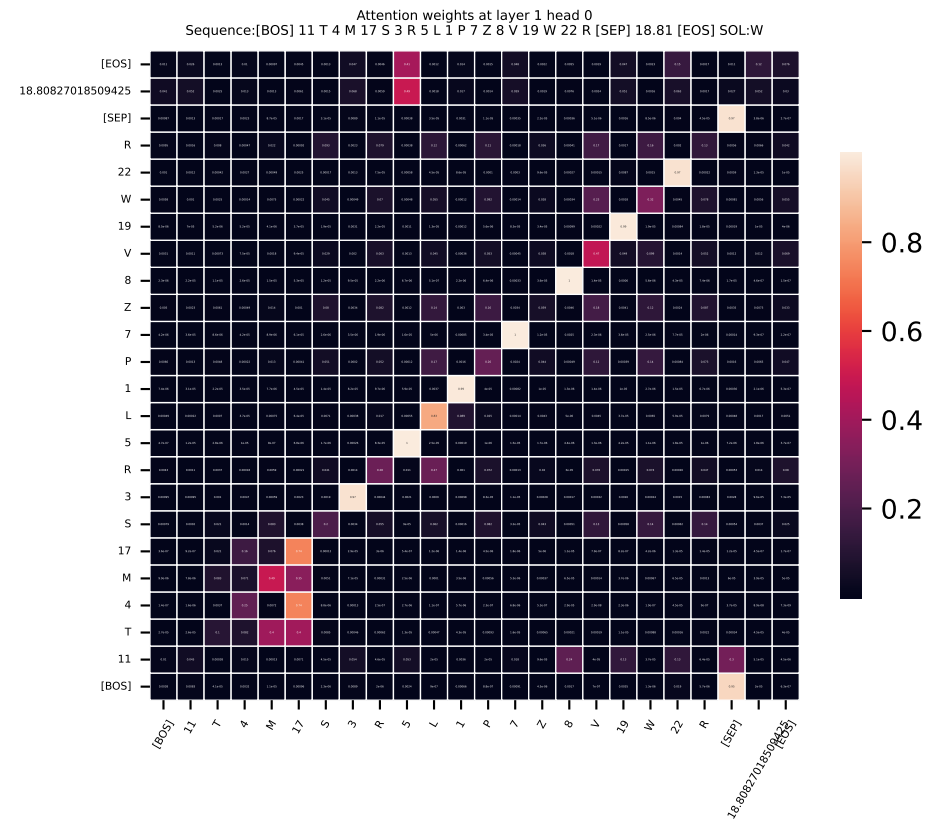
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[SEP]
R
22
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Z
7
P
1
L
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R
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S
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T
11
[BOS]
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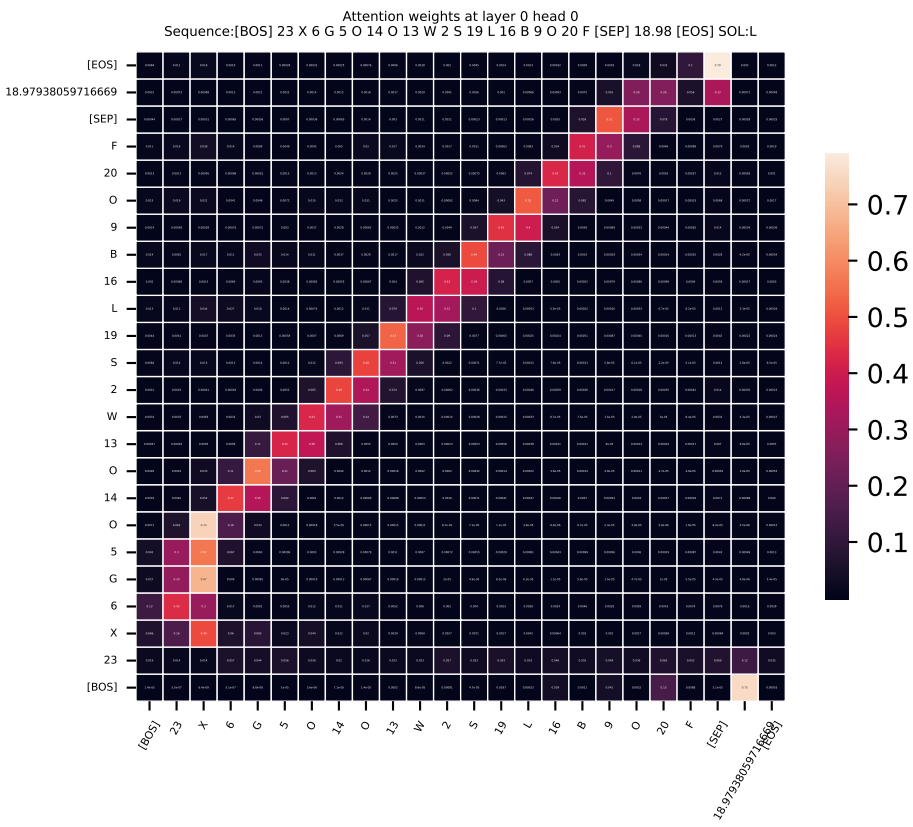
Attention weights at layer 0 head 0
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[SEP]
F
20
O
9
B
16
L
19
S
2
W
13
O
14
O
5
G
6
X
23
[BOS]
[BOS]
23
X
6
G
5
O
14
O
13
W
2
S
19
L
16
B
9
O
20
F
[SEP]
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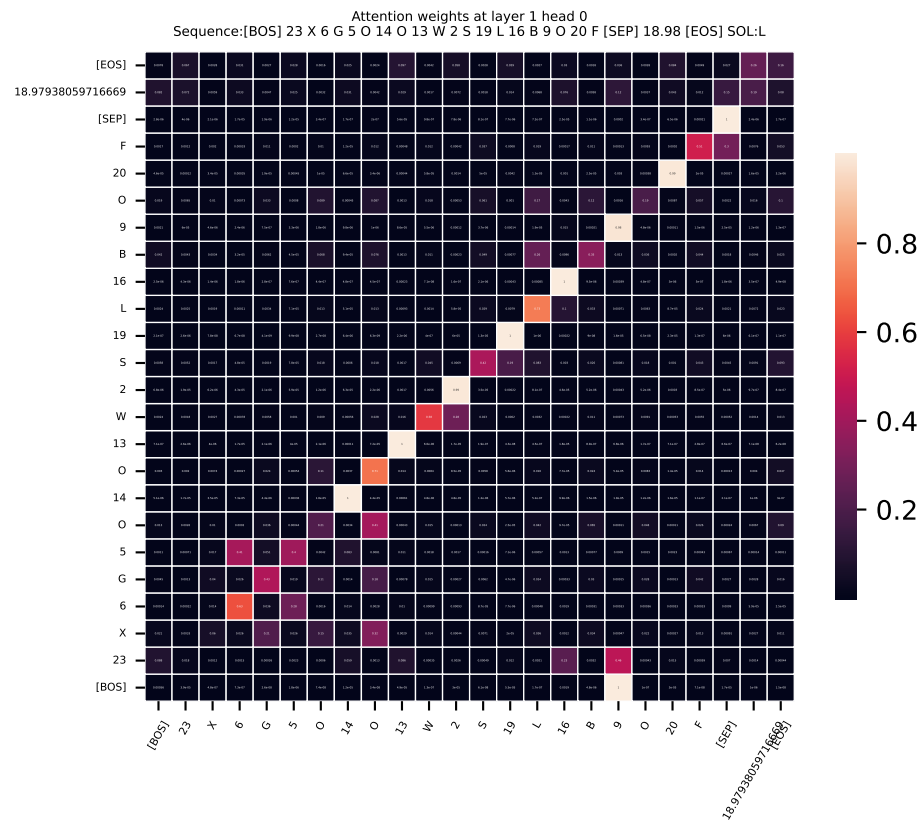
0.6
0.5
0.4
0.3
0.2
0.1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[EOS]
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[SEP]
F
20
O
9
B
16
L
19
S
2
W
13
O
14
O
5
G
6
X
23
[BOS]
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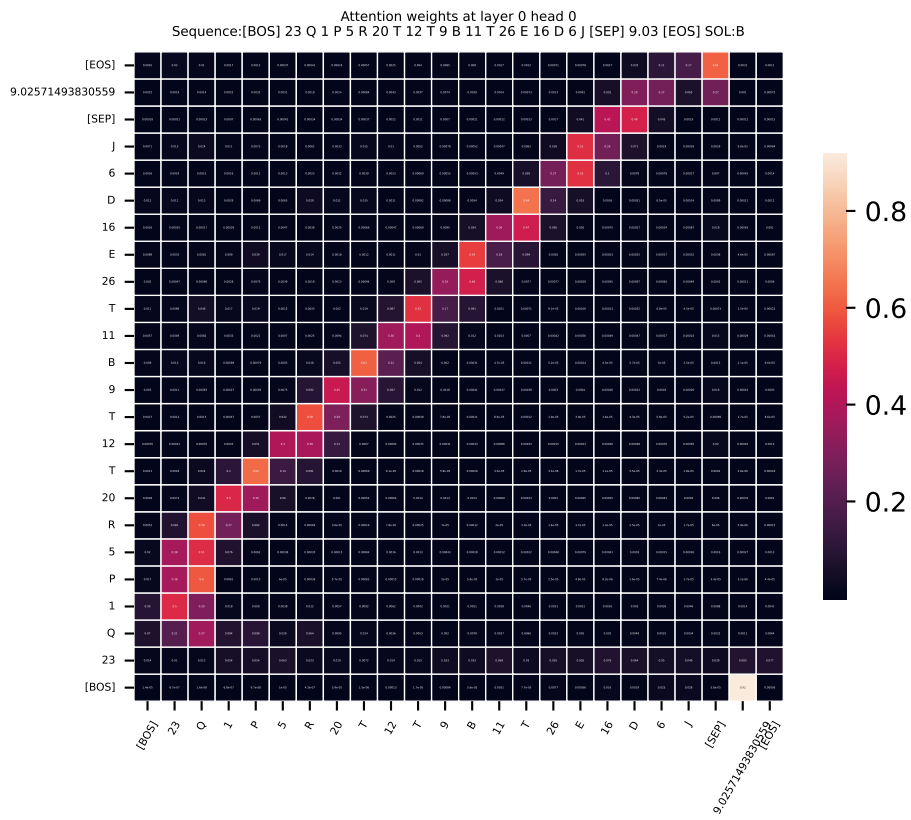
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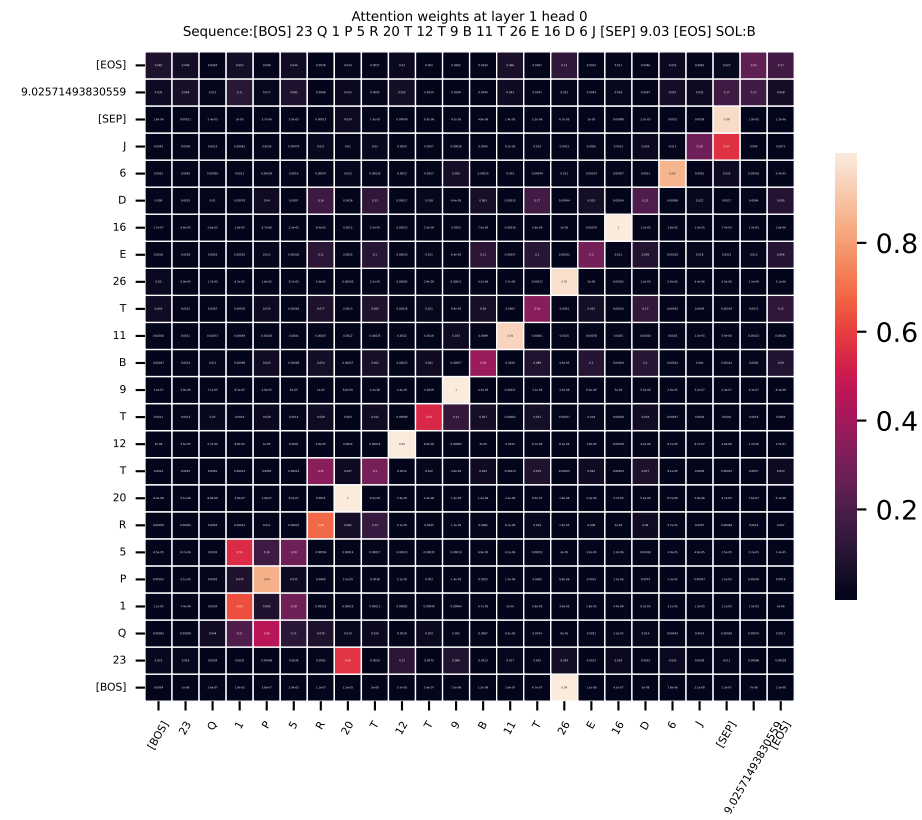
[EOS]
9.02571493830559
[SEP]
J
6
D
16
E
26
T
11
B
9
T
12
T
20
R
5
P
1
Q
23
[BOS]
[BOS] 23 Q 1 P 5 R 20 T 12 T 9 B 11 T 26 E 16 D 6 J [SEP] 9.03 [EOS]
0.8
0.6
0.4
0.2


Attention weights at layer 1 head 0
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[EOS]
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[SEP]
J
6
D
16
E
26
T
11
B
9
T
12
T
20
R
5
P
1
Q
23
[BOS]
[BOS] 23 Q 1 P 5 R 20 T 12 T 9 B 11 T 26 E 16 D 6 J [SEP] 9.03 [EOS]
0.8
0.6
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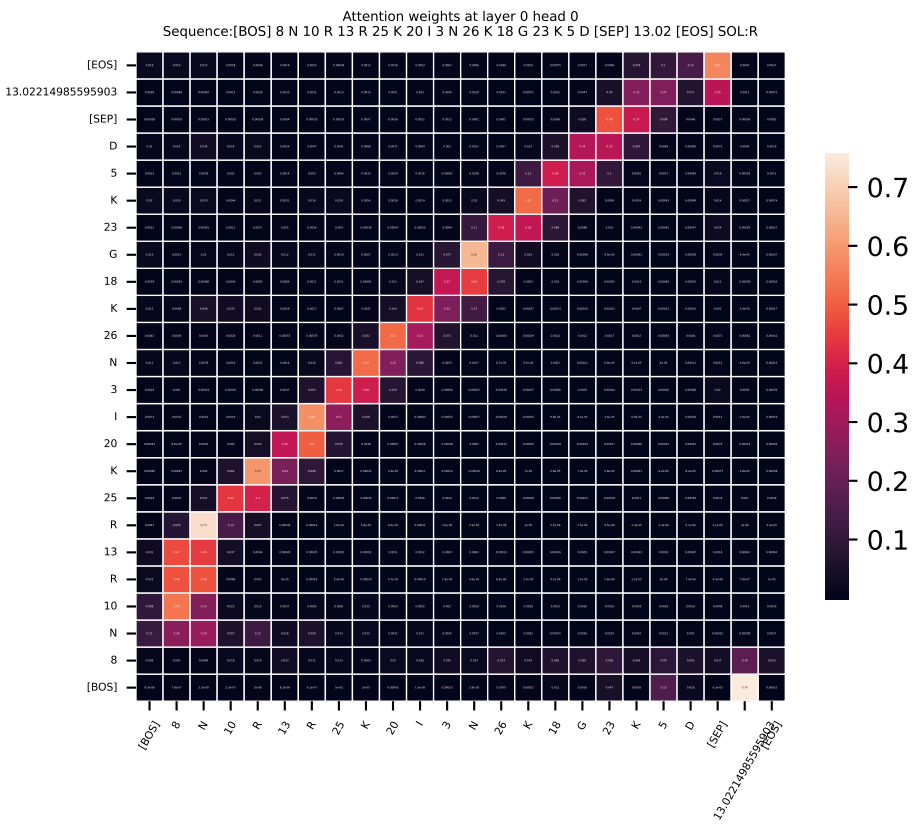
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[EOS]
13.02214985595903
[SEP]
D
5
K
23
G
18
K
26
N
3
I
20
K
25
R
13
R
10
N
8
[BOS]
[BOS] 8 N 10 R 13 R 25 K 20 I 3 N 26 K 18 G 23 K 5 D [SEP] 13.02 [EOS]
0.7
0.6
0.5
0.4
0.3
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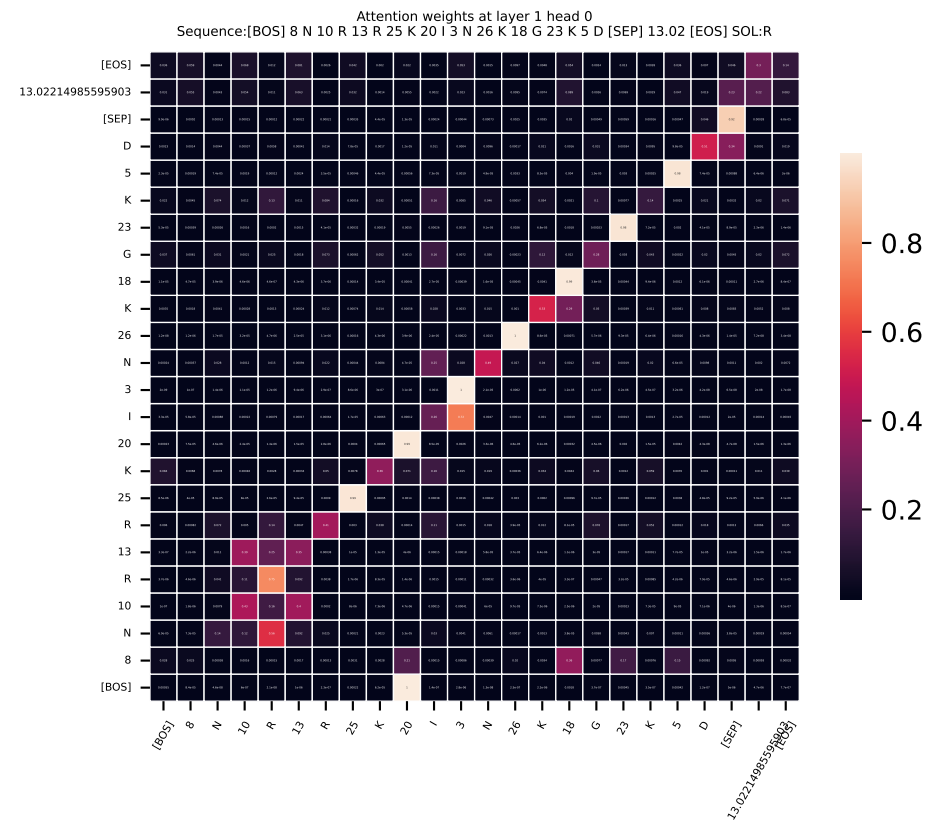
0.1


Attention weights at layer 1 head 0
Sequence:[BOS] 8 N 10 R 13 R 25 K 20 I 3 N 26 K 18 G 23 K 5 D [SEP] 13.02 [EOS] SOL:R
[EOS]
13.02214985595903
[SEP]
D
5
K
23
G
18
K
26
N
3
I
20
K
25
R
13
R
10
N
8
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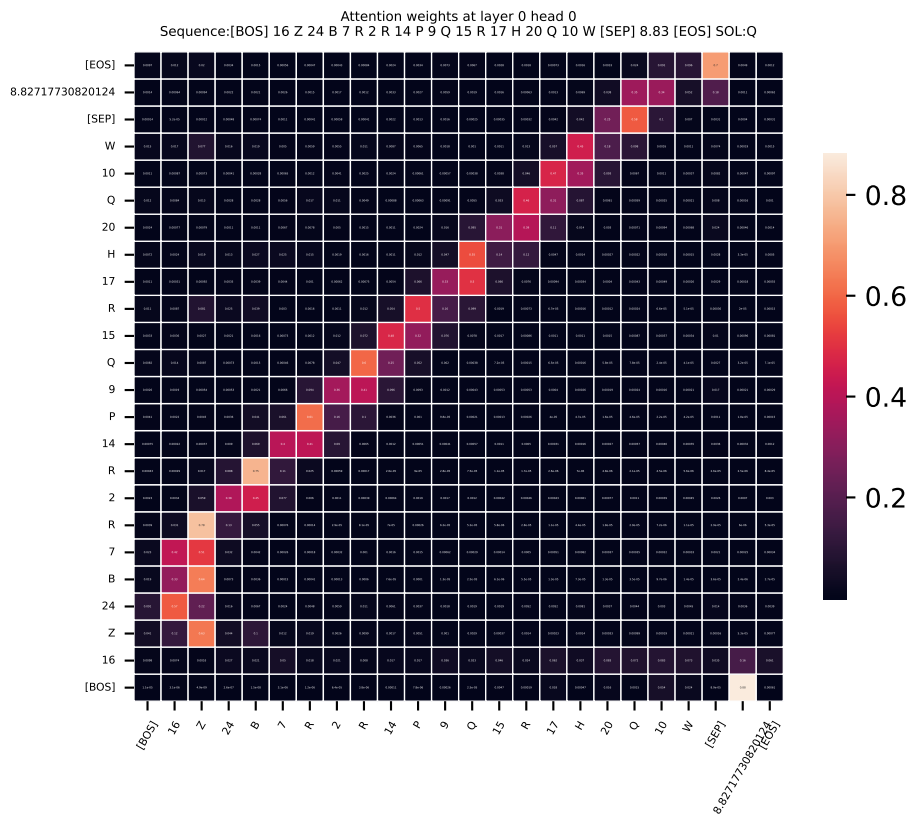
Attention weights at layer 0 head 0
Sequence:[BOS] 16 Z 24 B 7 R 2 R 14 P 9 Q 15 R 17 H 20 Q 10 W [SEP] 8.83 [EOS] SOL:Q
[EOS]
8.82717730820124
[SEP]
W
10
Q
20
H
17
R
15
Q
9
P
14
R
2
R
7
B
24
Z
16
[BOS]
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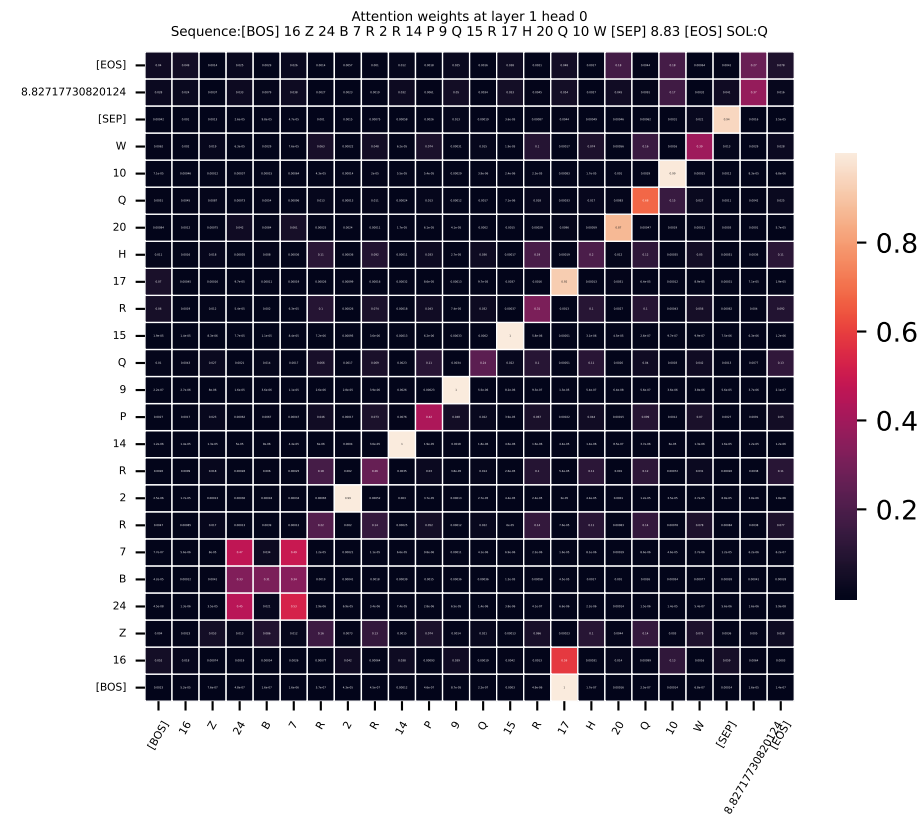
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[EOS]
8.82717730820124
[SEP]
W
10
Q
20
H
17
R
15
Q
9
P
14
R
2
R
7
B
24
Z
16
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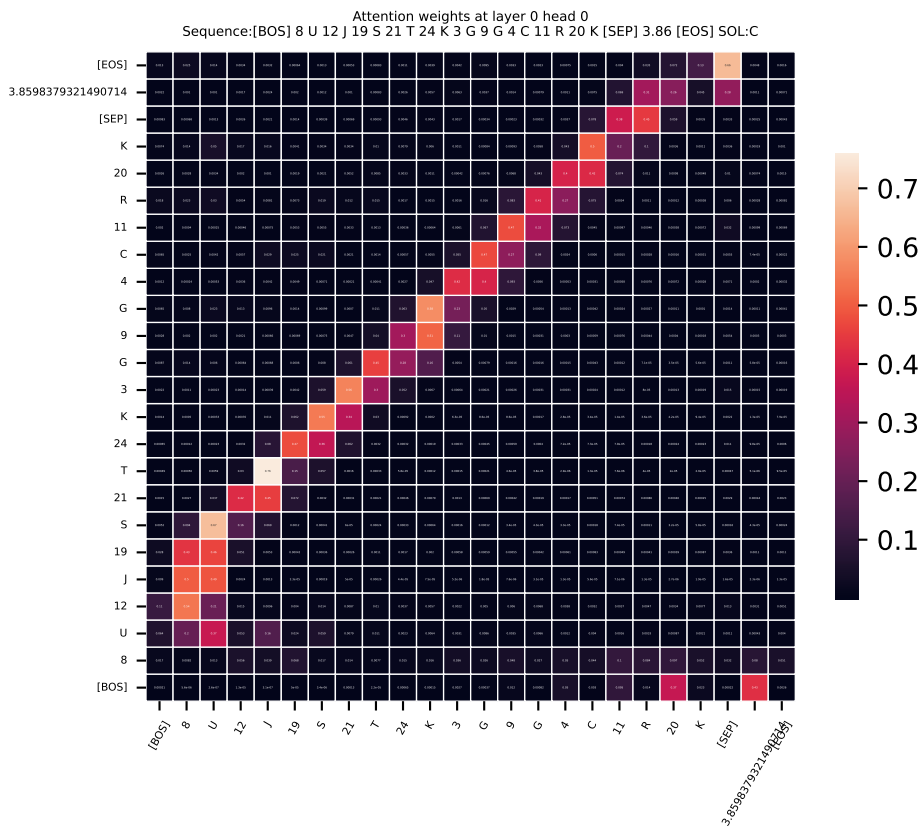
Attention weights at layer 0 head 0
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[EOS]
3.8598379321490714
[SEP]
K
20
R
11
C
4
G
9
G
3
K
24
T
21
S
19
J
12
U
8
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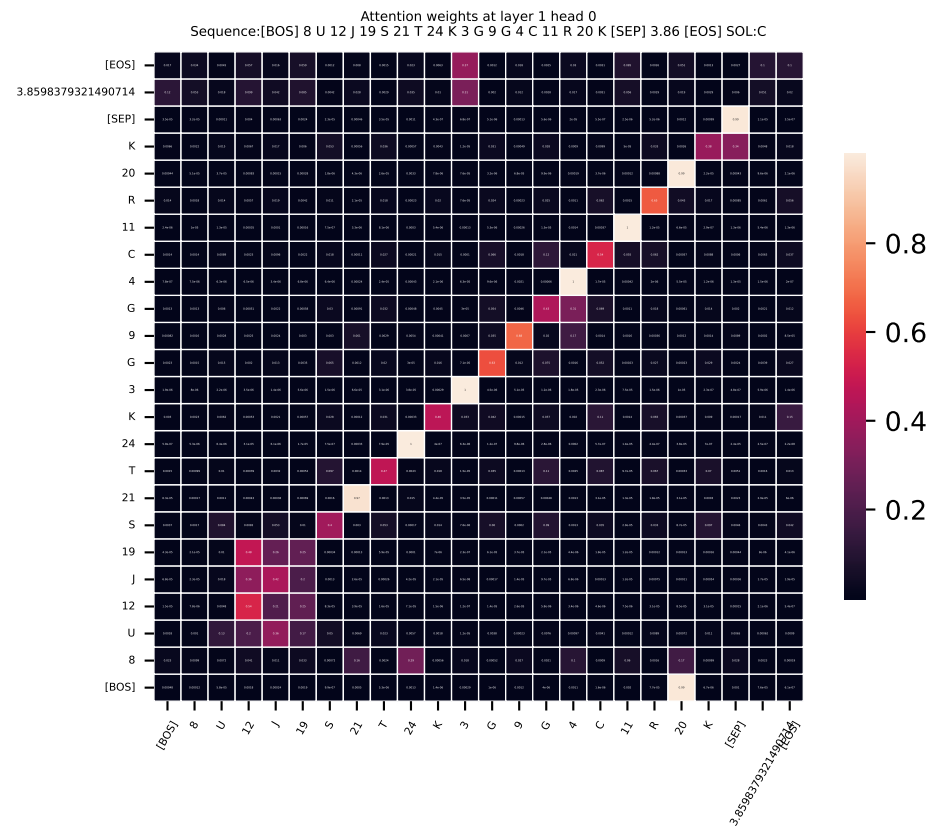
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[EOS]
3.8598379321490714
[SEP]
K
20
R
11
C
4
G
9
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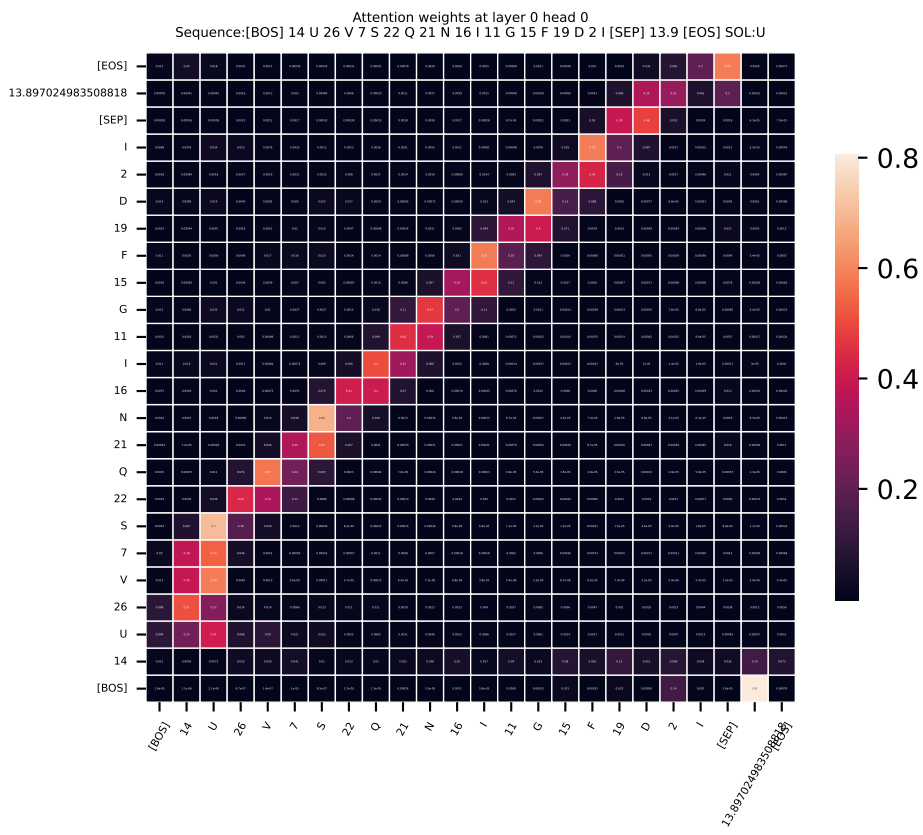
Attention weights at layer 0 head 0
Sequence:[BOS] 14 U 26 V 7 S 22 Q 21 N 16 I 11 G 15 F 19 D 2 I [SEP] 13.9 [EOS] SOL:U
[EOS]
13.897024983508818
[SEP]
I
2
D
19
F
15
G
11
I
16
N
21
Q
22
S
7
V
26
U
14
[BOS]
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0.6
0.4
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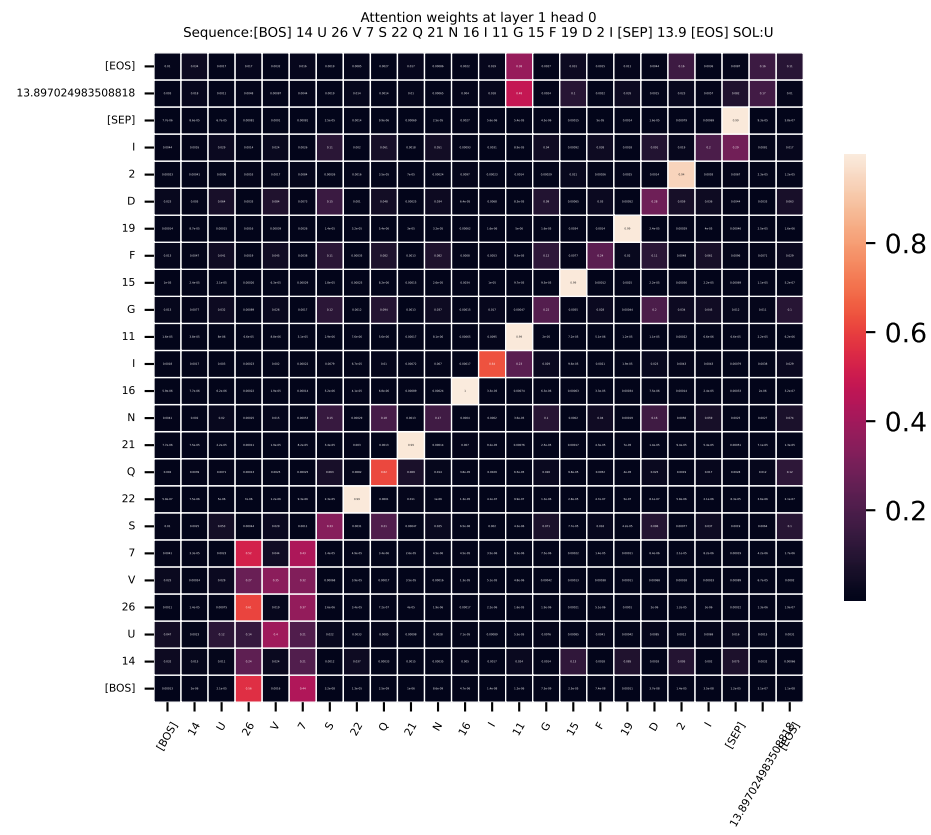
Attention weights at layer 1 head 0
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[EOS]
13.897024983508818
[SEP]
I
2
D
19
F
15
G
11
I
16
N
21
Q
22
S
7
V
26
U
14
[BOS]
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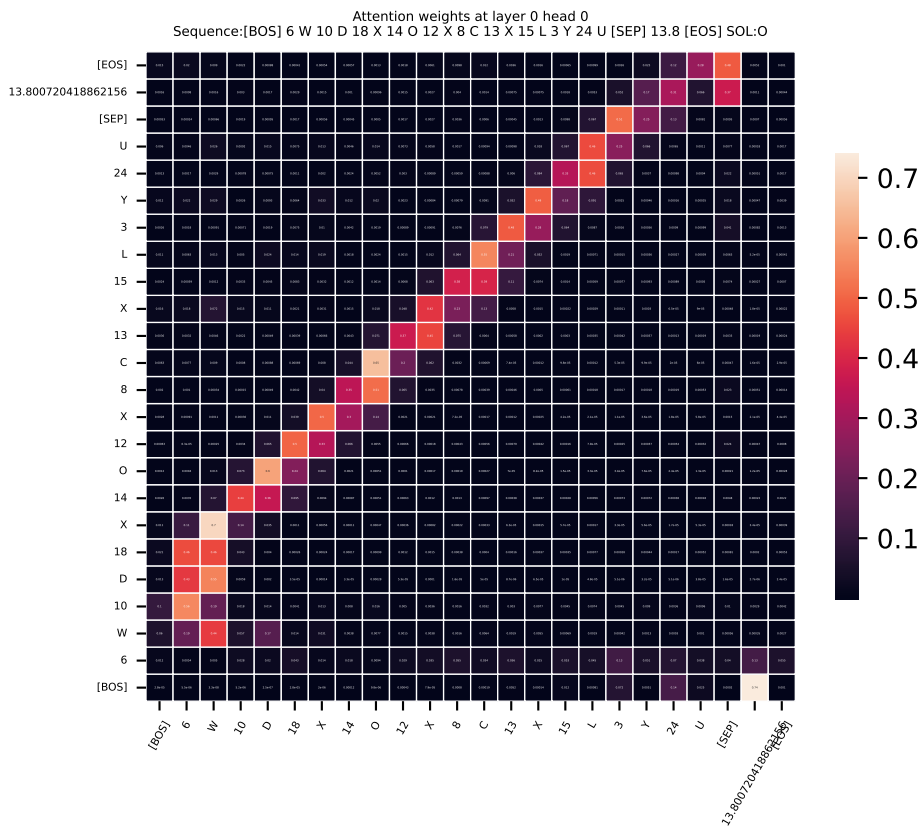
Attention weights at layer 0 head 0
Sequence:[BOS] 6 W 10 D 18 X 14 O 12 X 8 C 13 X 15 L 3 Y 24 U [SEP] 13.8 [EOS] SOL:O
[EOS]
13.800720418862156
[SEP]
U
24
Y
3
L
15
X
13
C
8
X
12
O
14
X
18
D
10
W
6
[BOS]
[BOS] 6 W 10 D 18 X 14 O 12 X 8 C 13 X 15 L 3 Y 24 U [SEP]
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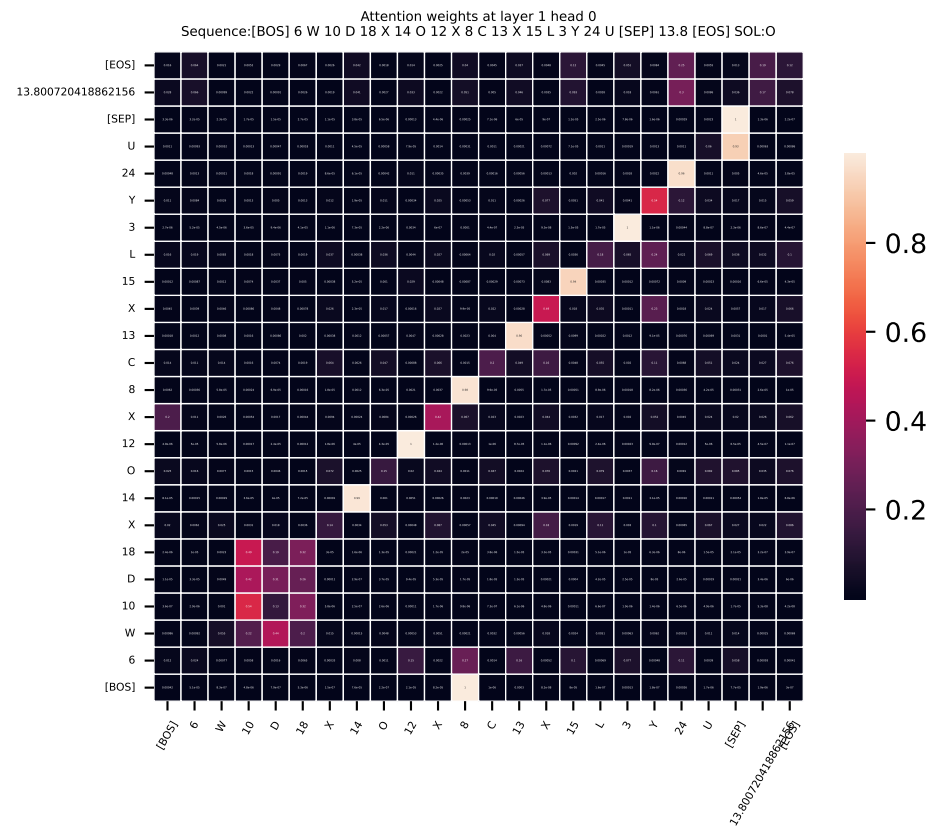
Attention weights at layer 1 head 0
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[EOS]
13.800720418862156
[SEP]
U
24
Y
3
L
15
X
13
C
8
X
12
O
14
X
18
D
10
W
6
[BOS]
[BOS] 6 W 10 D 18 X 14 O 12 X 8 C 13 X 15 L 3 Y 24 U [SEP]
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0.6
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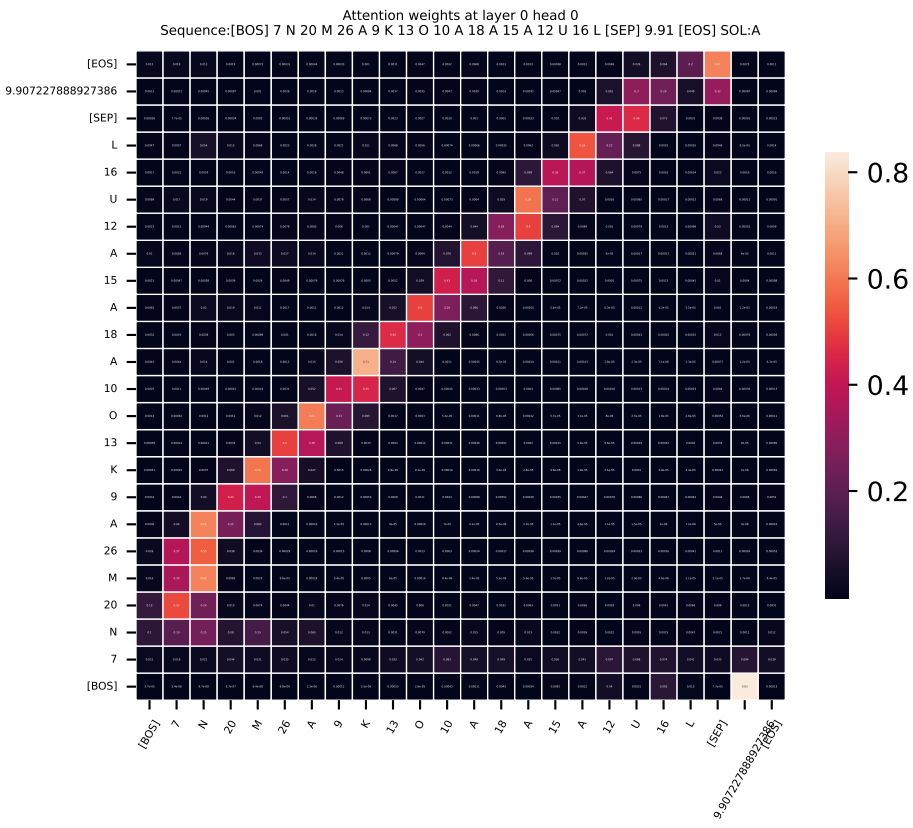
0.2


Attention weights at layer 0 head 0
Sequence:[BOS] 7 N 20 M 26 A 9 K 13 O 10 A 18 A 15 A 12 U 16 L [SEP] 9.91 [EOS] SOL:A
[EOS]
9.907227888927386
[SEP]
L
16
U
12
A
15
A
18
A
10
O
13
K
9
A
26
M
20
N
7
[BOS]
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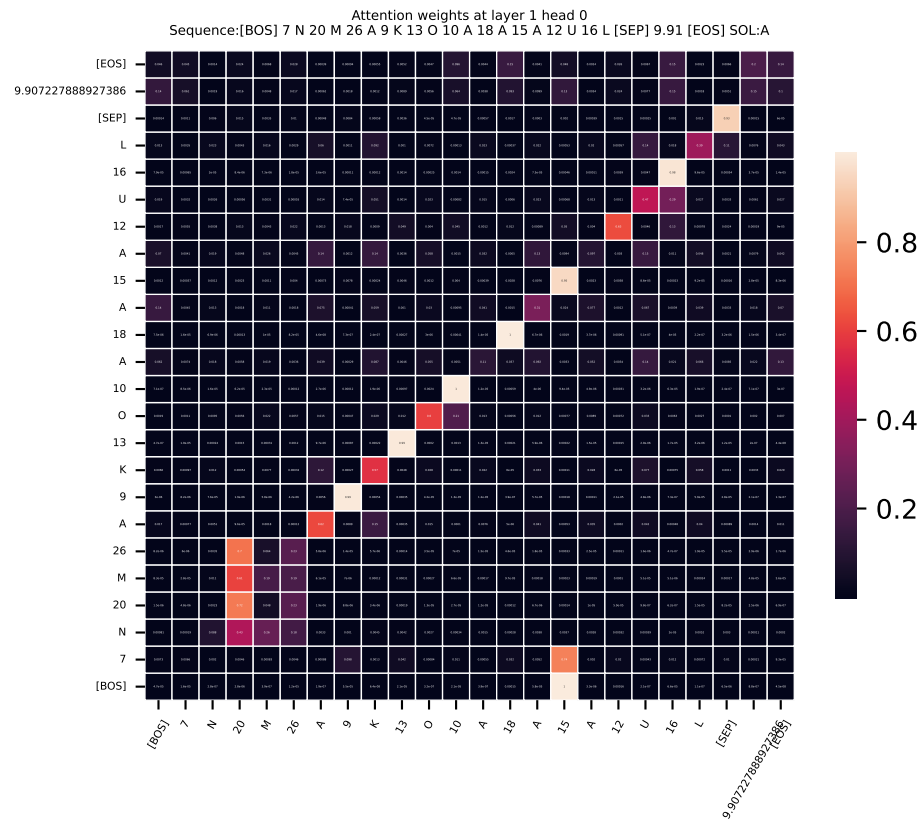
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[EOS]
9.907227888927386
[SEP]
L
16
U
12
A
15
A
18
A
10
O
13
K
9
A
26
M
20
N
7
[BOS]
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0.4
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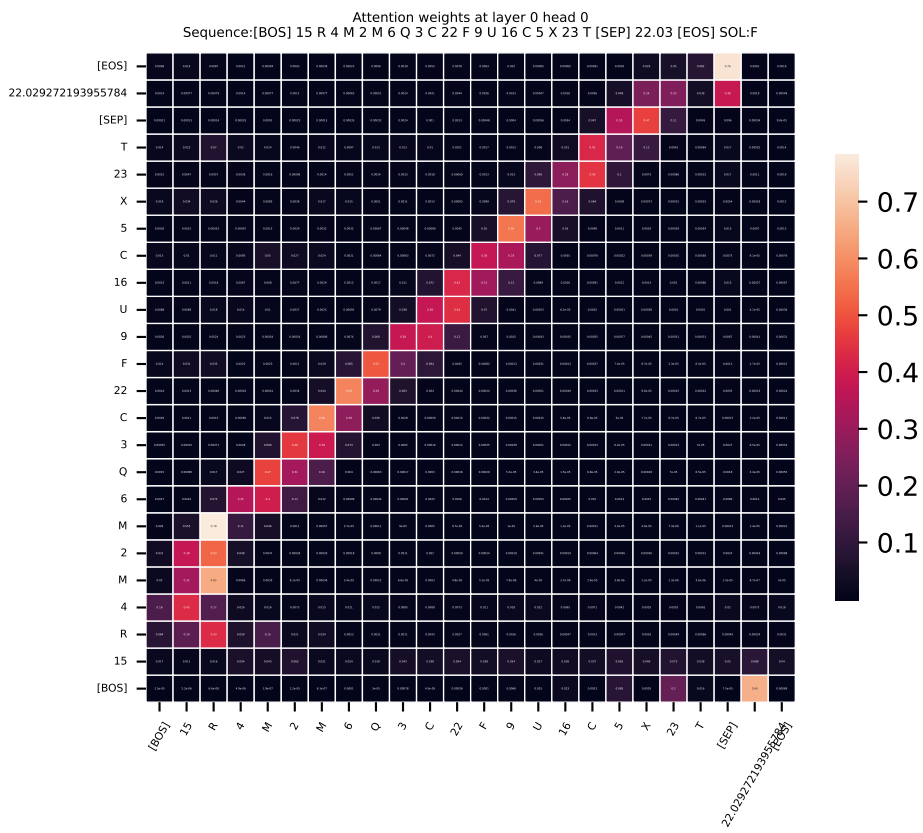
Attention weights at layer 0 head 0
Sequence:[BOS] 15 R 4 M 2 M 6 Q 3 C 22 F 9 U 16 C 5 X 23 T [SEP] 22.03 [EOS] SOL:F
[EOS]
22.029272193955784
[SEP]
T
23
X
5
C
16
U
9
F
22
C
3
Q
6
M
2
M
4
R
15
[BOS]
[BOS]
15
R
4
M
2
M
6
Q
3
C
22
F
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X
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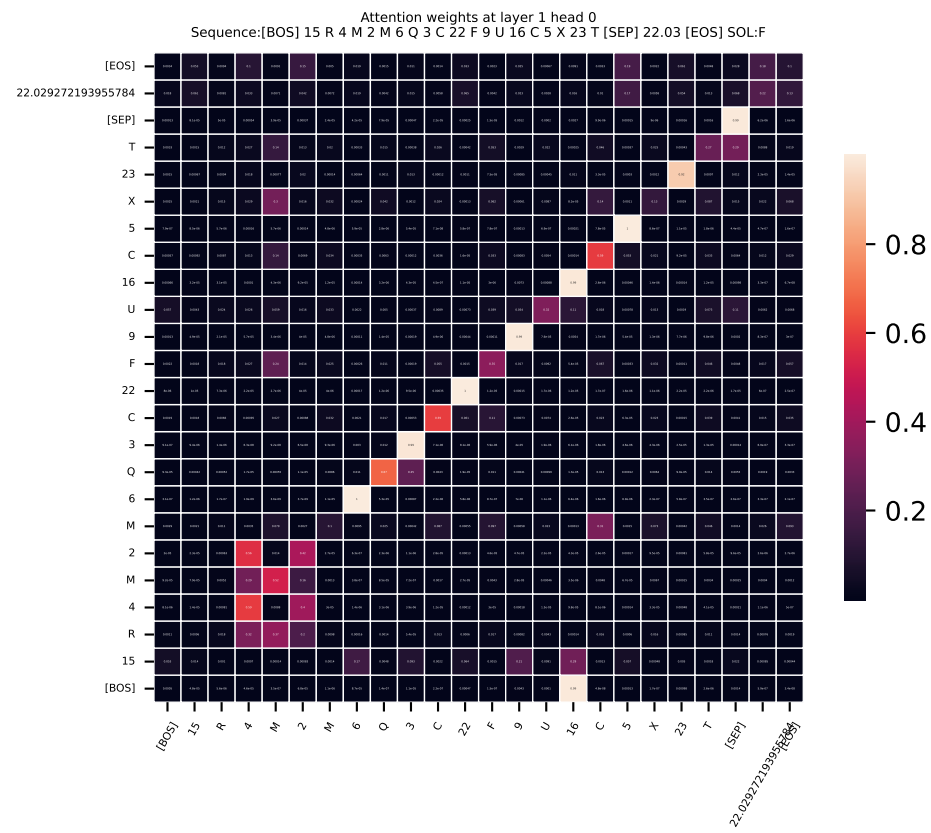
Attention weights at layer 1 head 0
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[EOS]
22.029272193955784
[SEP]
T
23
X
5
C
16
U
9
F
22
C
3
Q
6
M
2
M
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R
15
[BOS]
[BOS]
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R
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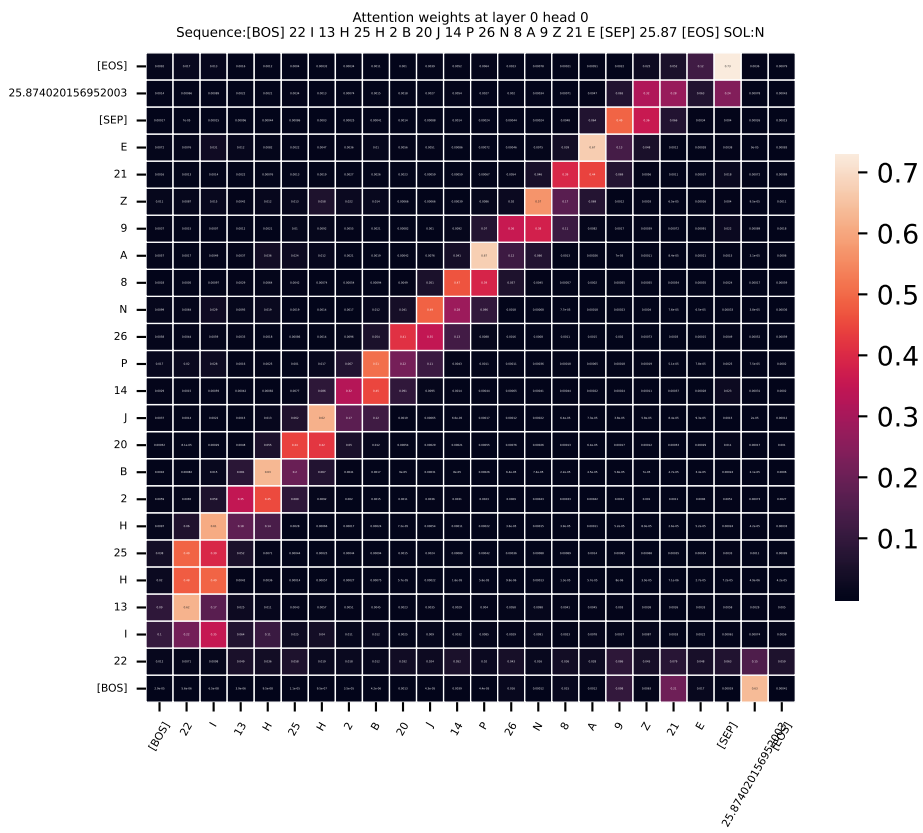
Attention weights at layer 0 head 0
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[EOS]
25.874020156952003
[SEP]
E
21
Z
9
A
8
N
26
P
14
J
20
B
2
H
25
H
13
I
22
[BOS]
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0.6
0.5
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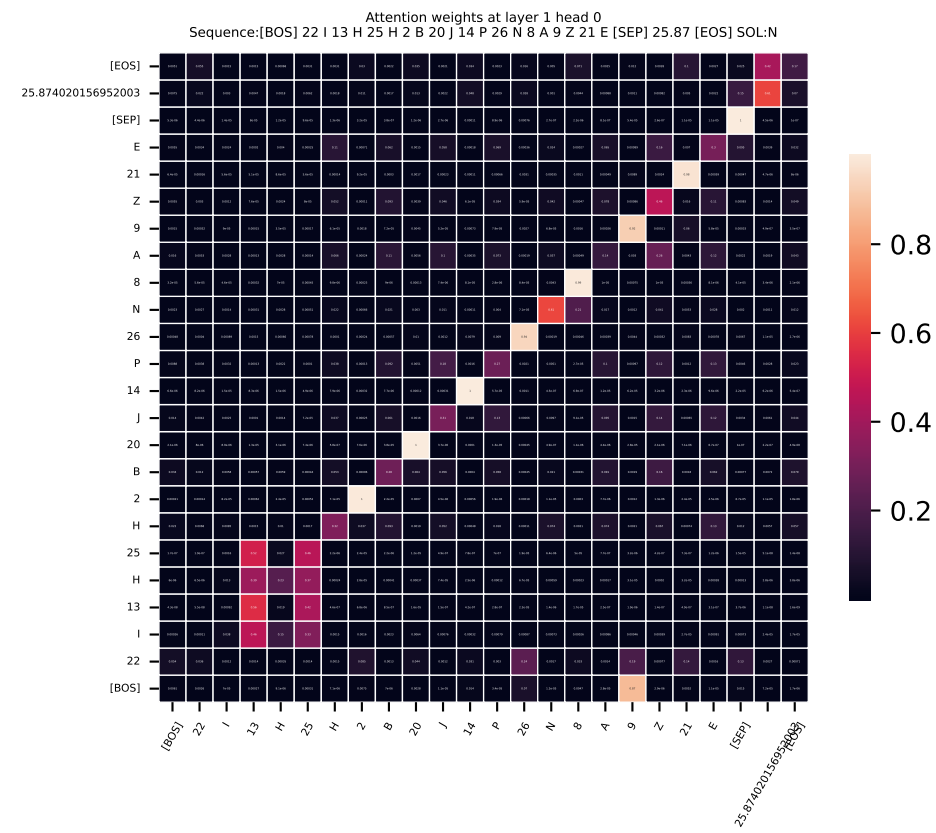
Attention weights at layer 1 head 0
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[EOS]
25.874020156952003
[SEP]
E
21
Z
9
A
8
N
26
P
14
J
20
B
2
H
25
H
13
I
22
[BOS]
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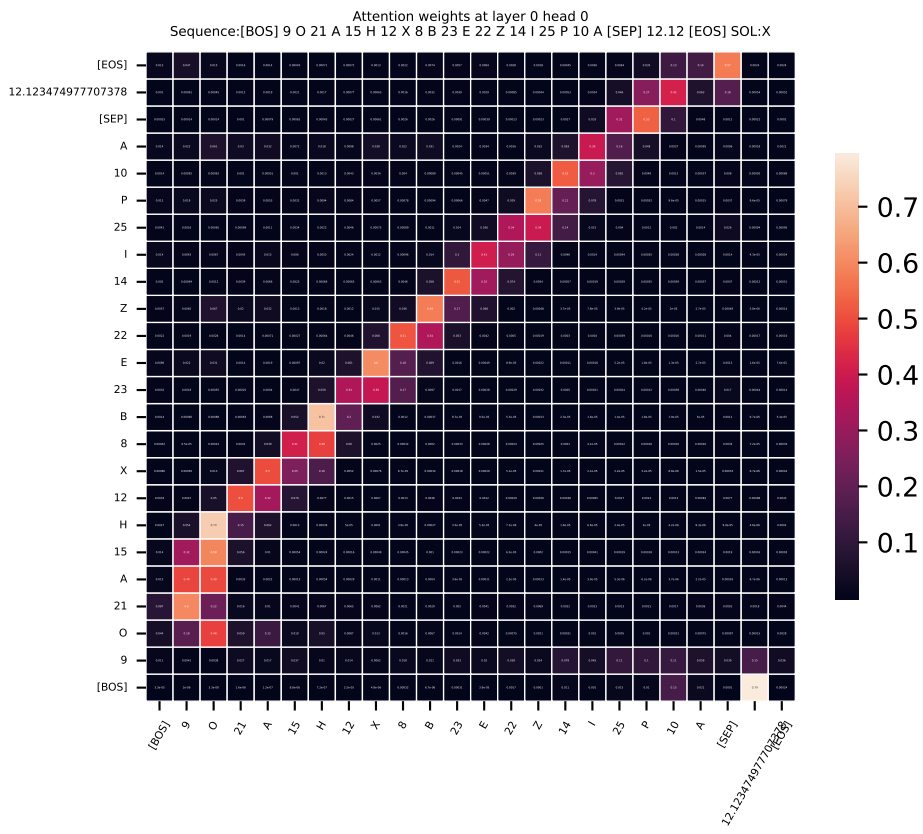
Attention weights at layer 0 head 0
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[EOS]
12.123474977707378
[SEP]
A
10
P
25
I
14
Z
22
E
23
B
8
X
12
H
15
A
21
O
9
[BOS]
[BOS] 9 O 21 A 15 H 12 X 8 B 23 E 22 Z 14 I 25 P 10 A [SEP] 12.12 [EOS]
0.7
0.6
0.5
0.4
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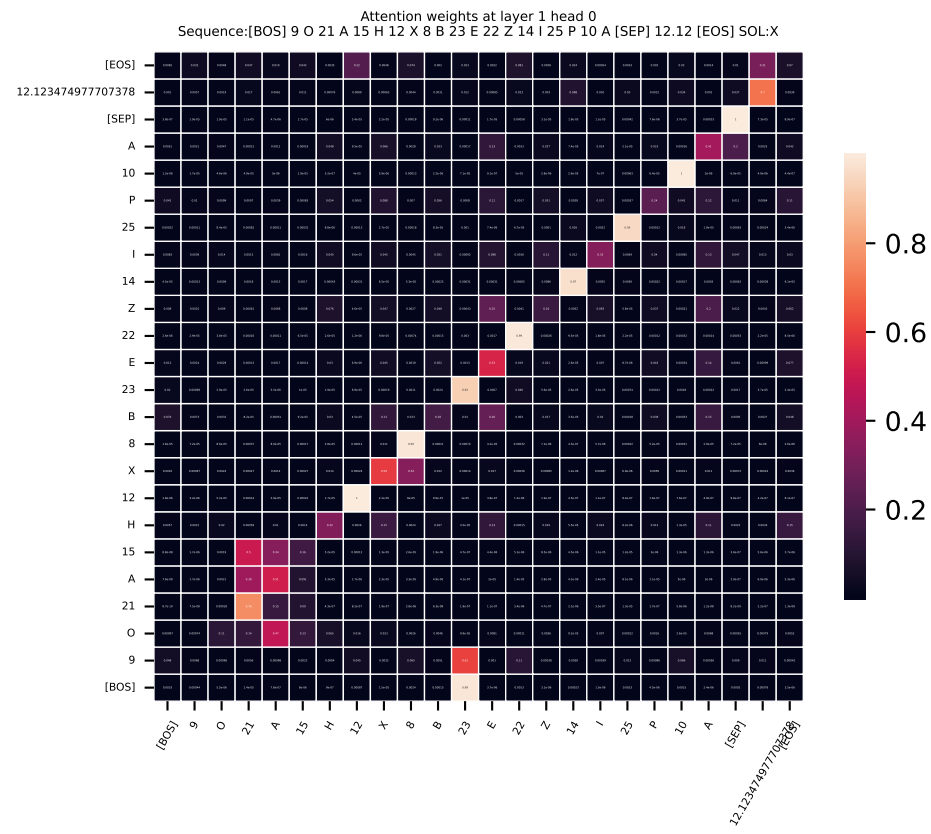
0.2
0.1


Attention weights at layer 1 head 0
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[EOS]
12.123474977707378
[SEP]
A
10
P
25
I
14
Z
22
E
23
B
8
X
12
H
15
A
21
O
9
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0.8
0.6
0.4
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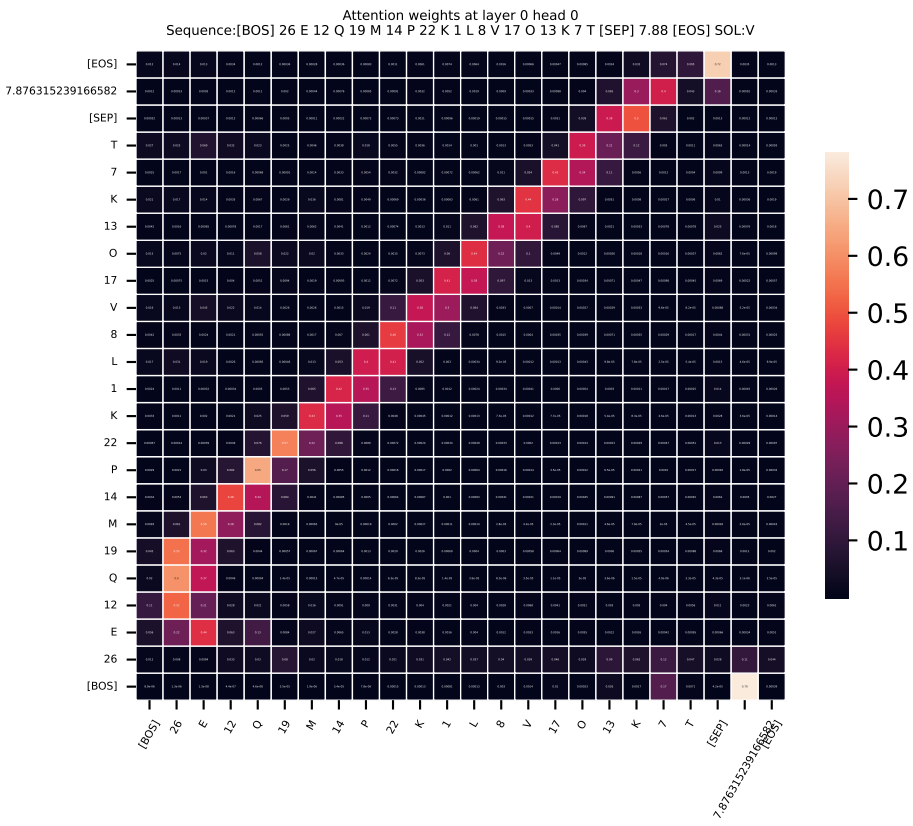
Attention weights at layer 0 head 0
Sequence:[BOS] 26 E 12 Q 19 M 14 P 22 K 1 L 8 V 17 O 13 K 7 T [SEP] 7.88 [EOS] SOL:V
[EOS]
7.876315239166582
[SEP]
T
7
K
13
O
17
V
8
L
1
K
22
P
14
M
19
Q
12
E
26
[BOS]
[BOS] 26 E 12 Q 19 M 14 P 22 K 1 L 8 V 17 O 13 K 7 T [SEP] 7.876315239166582 [EOS]
0.7
0.6
0.5
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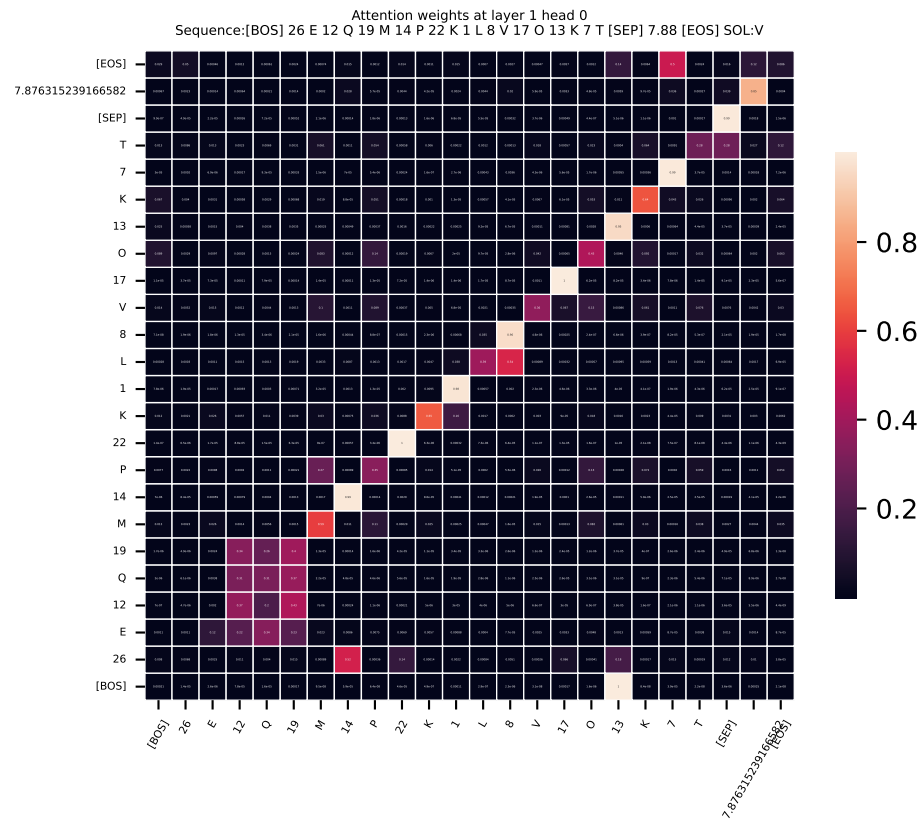
Attention weights at layer 1 head 0
Sequence:[BOS] 26 E 12 Q 19 M 14 P 22 K 1 L 8 V 17 O 13 K 7 T [SEP] 7.88 [EOS] SOL:V
[EOS]
7.876315239166582
[SEP]
T
7
K
13
O
17
V
8
L
1
K
22
P
14
M
19
Q
12
E
26
[BOS]
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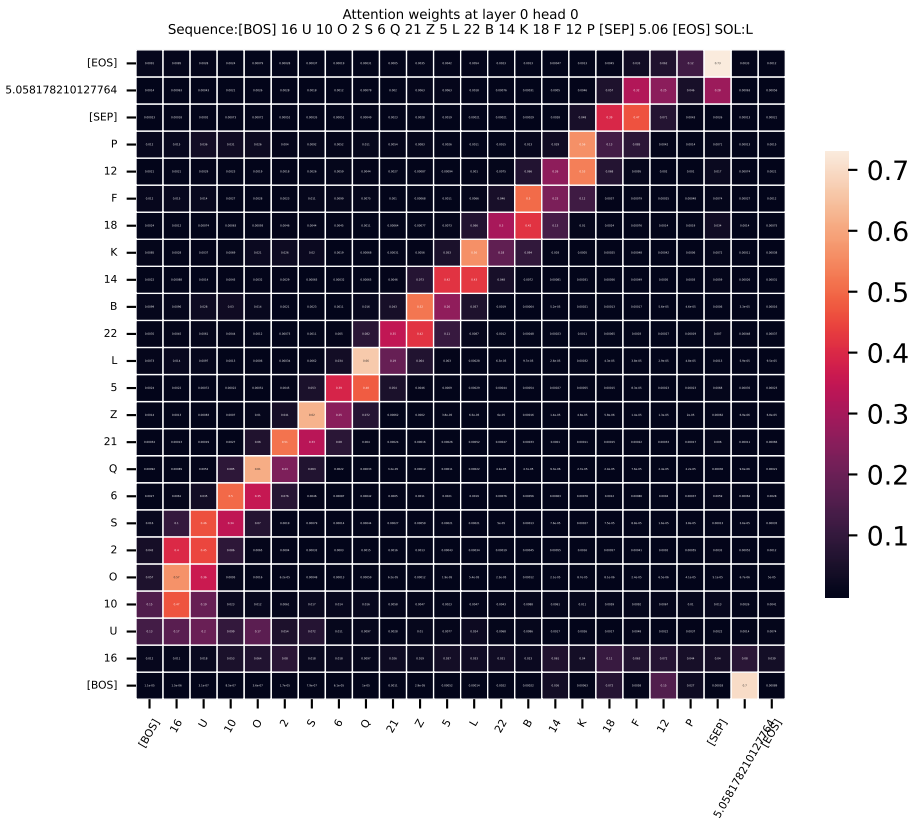
Attention weights at layer 0 head 0
Sequence:[BOS] 16 U 10 O 2 S 6 Q 21 Z 5 L 22 B 14 K 18 F 12 P [SEP] 5.06 [EOS] SOL:L
[EOS]
5.058178210127764
[SEP]
P
12
F
18
K
14
B
22
L
5
Z
21
Q
6
S
2
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10
U
16
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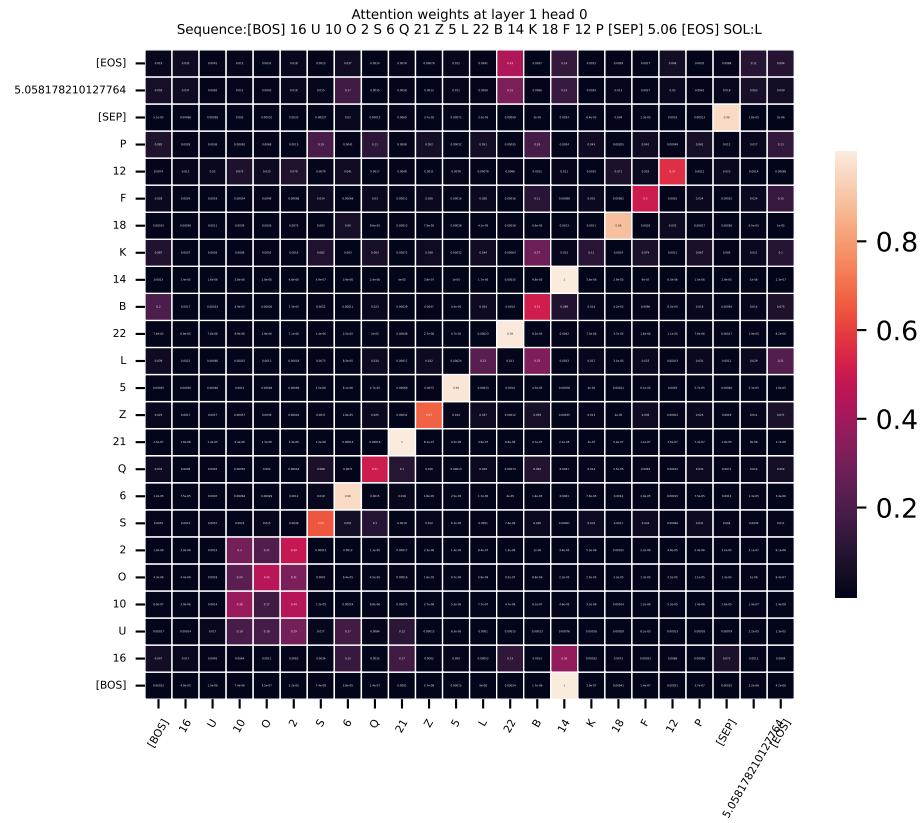
0.1


Attention weights at layer 1 head 0
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[EOS]
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[SEP]
P
12
F
18
K
14
B
22
L
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Z
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Q
6
S
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O
10
U
16
[BOS]
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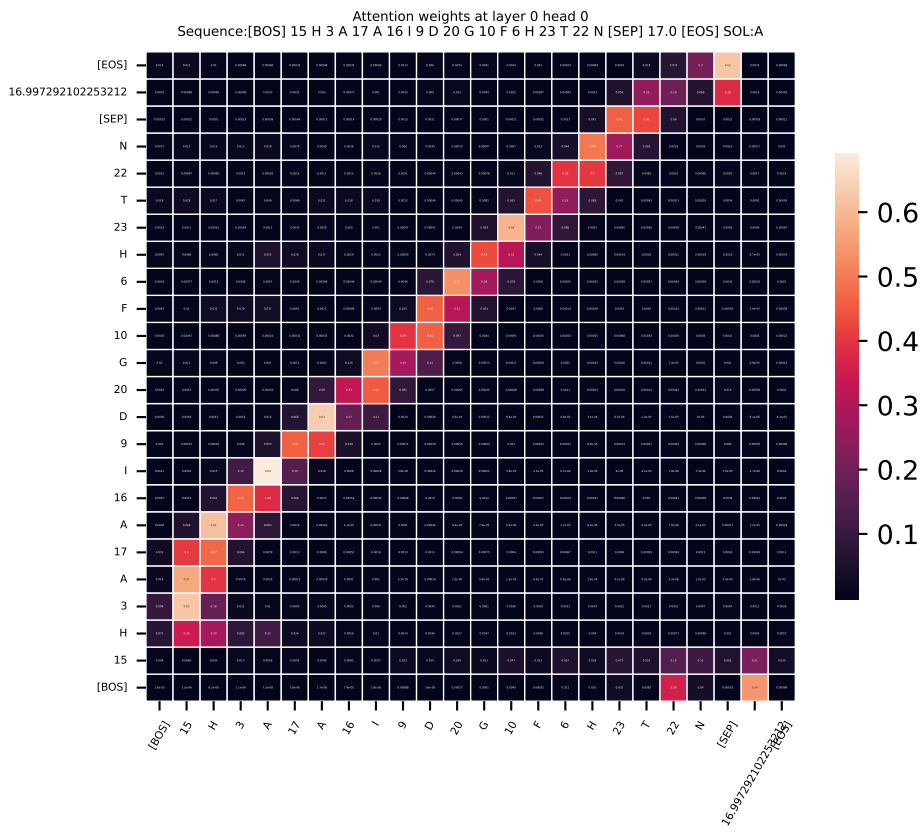
0.2


Attention weights at layer 0 head 0
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[EOS]
16.997292102253212
[SEP]
N
22
T
23
H
6
F
10
G
20
D
9
I
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A
3
H
15
[BOS]
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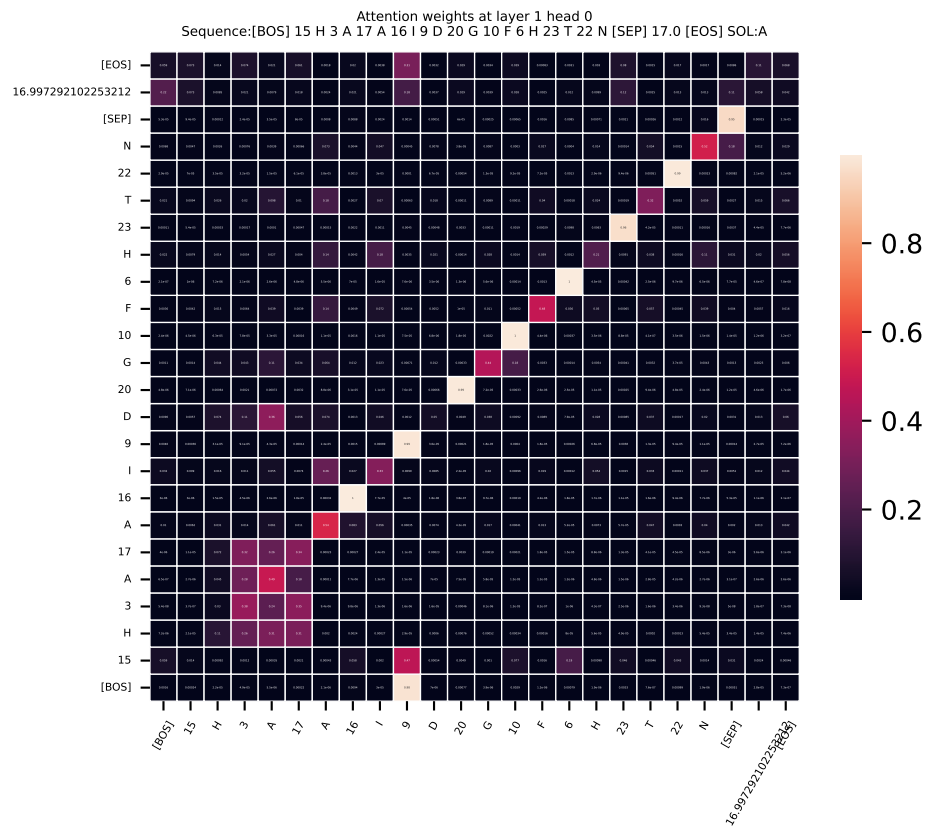
Attention weights at layer 1 head 0
Sequence:[BOS] 15 H 3 A 17 A 16 I 9 D 20 G 10 F 6 H 23 T 22 N [SEP] 17.0 [EOS] SOL:A
[EOS]
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[SEP]
N
22
T
23
H
6
F
10
G
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D
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I
16
A
17
A
3
H
15
[BOS]
0.8
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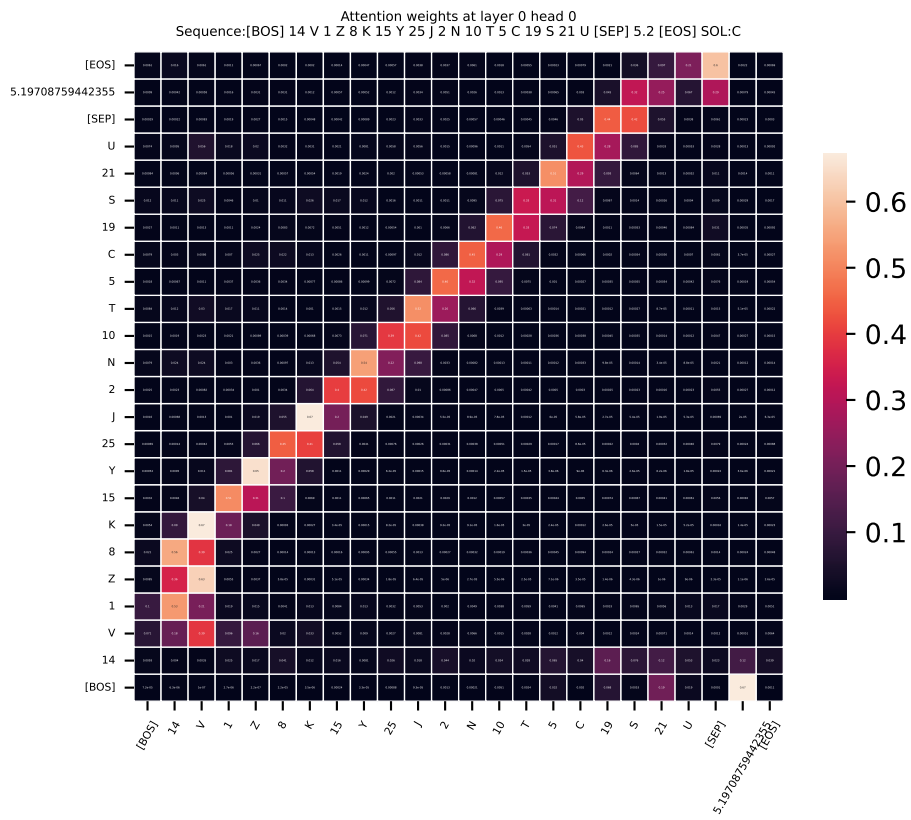
0.4
0.2


Attention weights at layer 0 head 0
Sequence:[BOS] 14 V 1 Z 8 K 15 Y 25 J 2 N 10 T 5 C 19 S 21 U [SEP] 5.2 [EOS] SOL:C
[EOS]
5.19708759442355
[SEP]
U
21
S
19
C
5
T
10
N
2
J
25
Y
15
K
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Z
1
V
14
[BOS]
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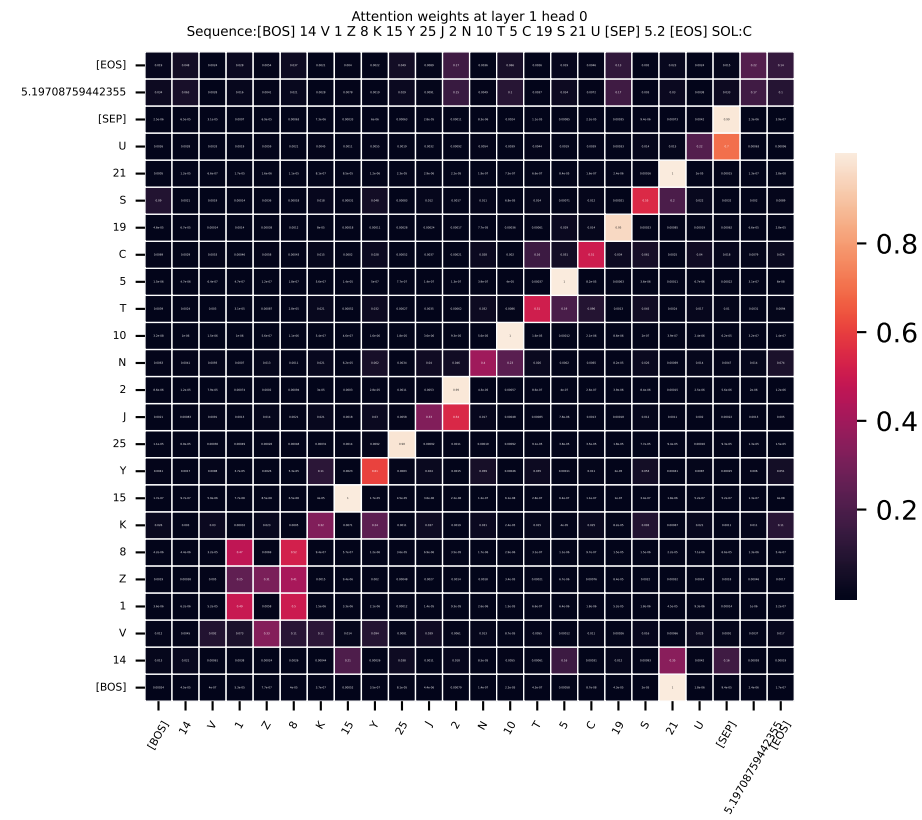
0.2
0.1


Attention weights at layer 1 head 0
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[EOS]
5.19708759442355
[SEP]
U
21
S
19
C
5
T
10
N
2
J
25
Y
15
K
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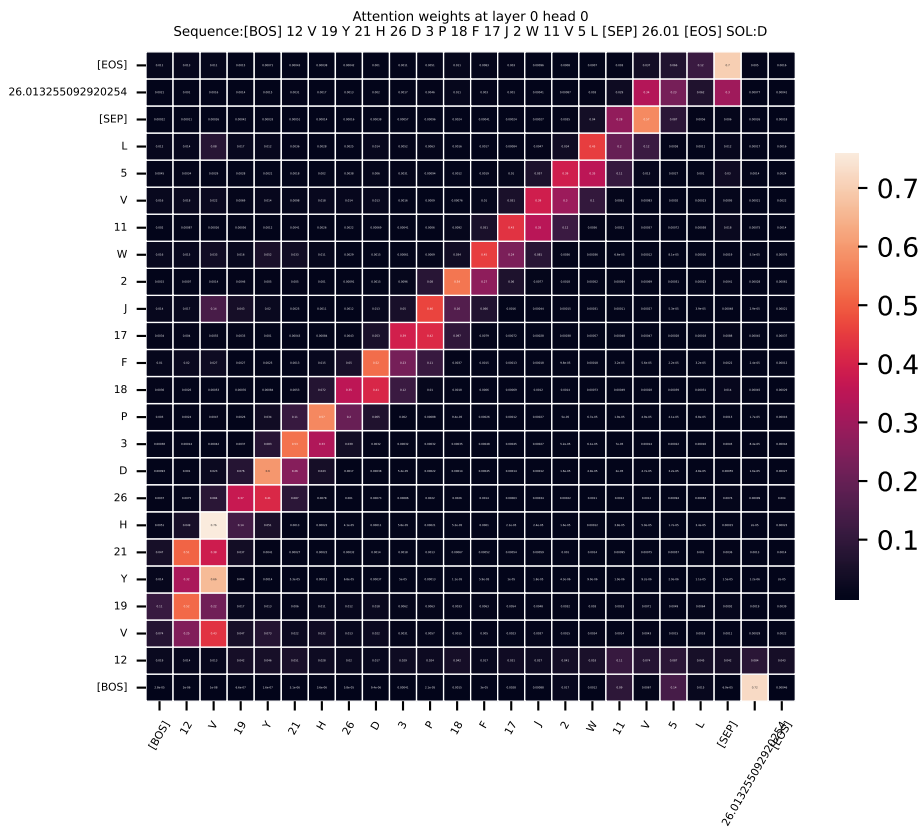
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[EOS]
26.013255092920254
[SEP]
L
5
V
11
W
2
J
17
F
18
P
3
D
26
H
21
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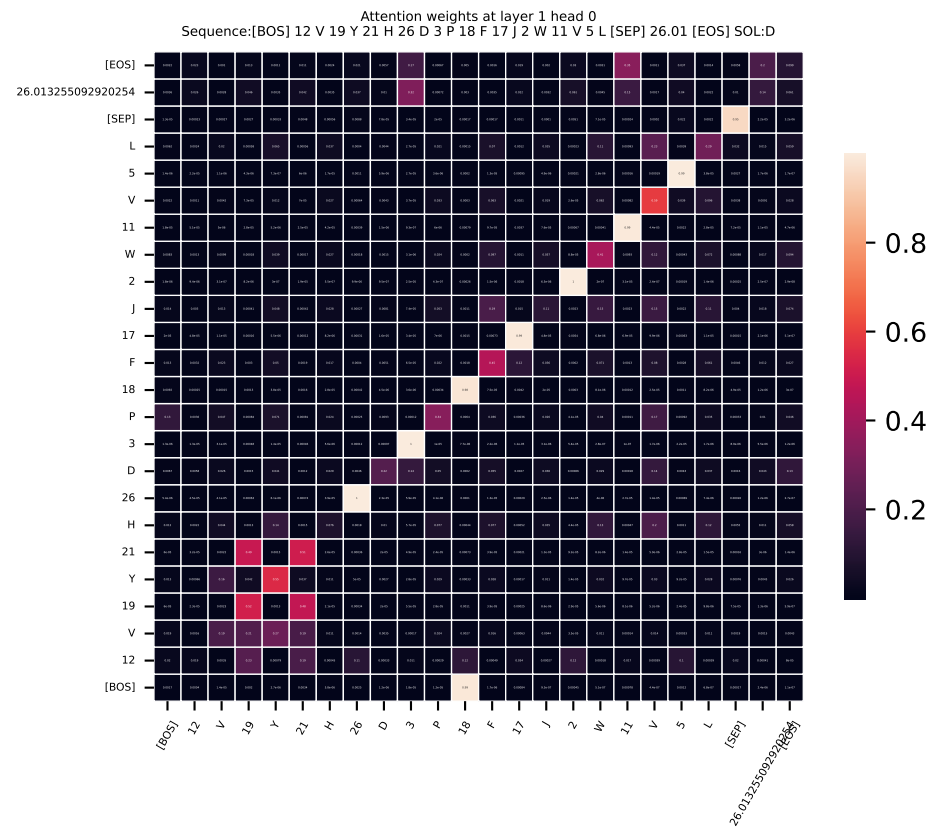
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26.013255092920254
[SEP]
L
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V
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W
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J
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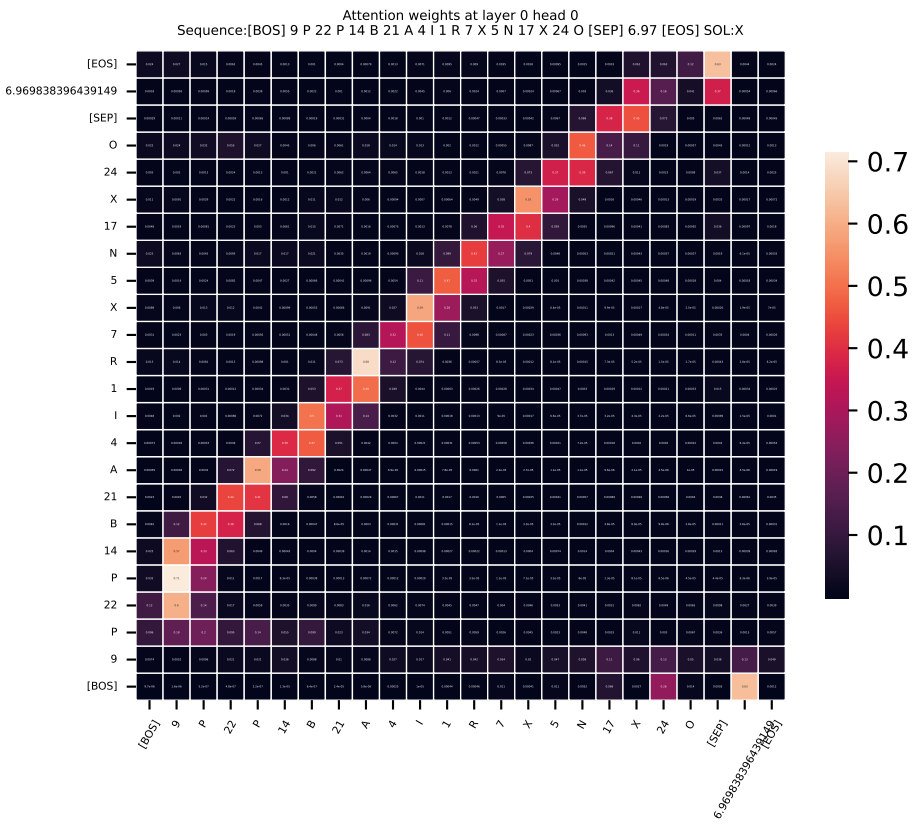
Attention weights at layer 0 head 0
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[EOS]
6.969838396439149
[SEP]
O
24
X
17
N
5
X
7
R
1
I
4
A
21
B
14
P
22
P
9
[BOS]
[BOS] 9 P 22 P 14 B 21 A 4 I 1 R 7 X 5 N 17 X 24 O [SEP] 6.969838396439149 [EOS]
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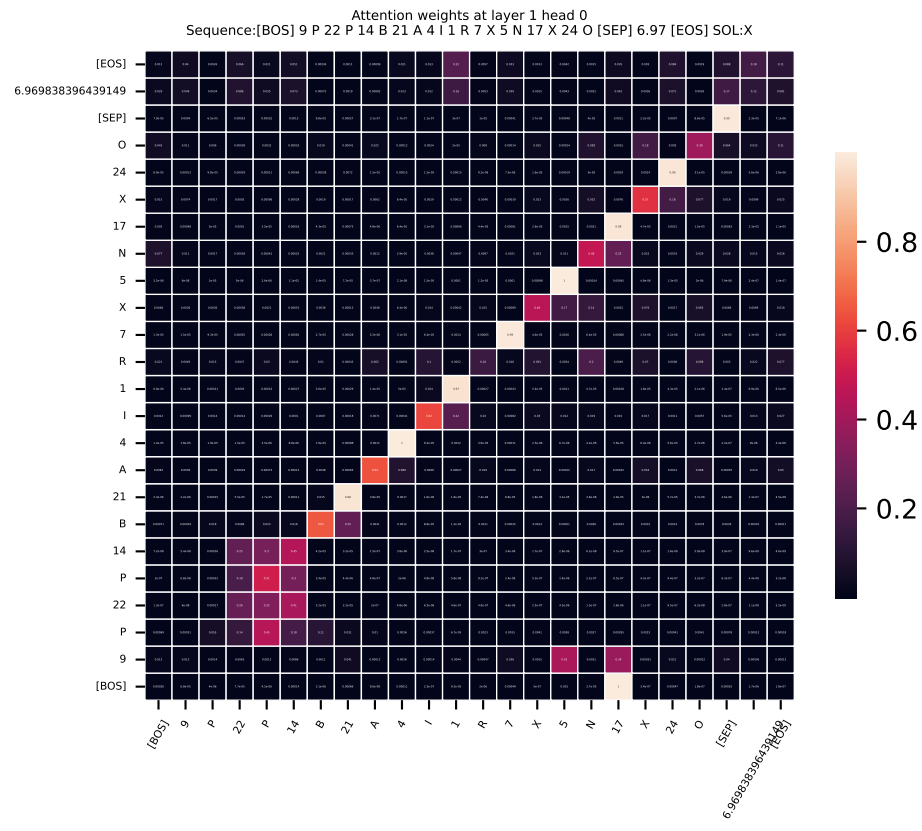
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[EOS]
6.969838396439149
[SEP]
O
24
X
17
N
5
X
7
R
1
I
4
A
21
B
14
P
22
P
9
[BOS]
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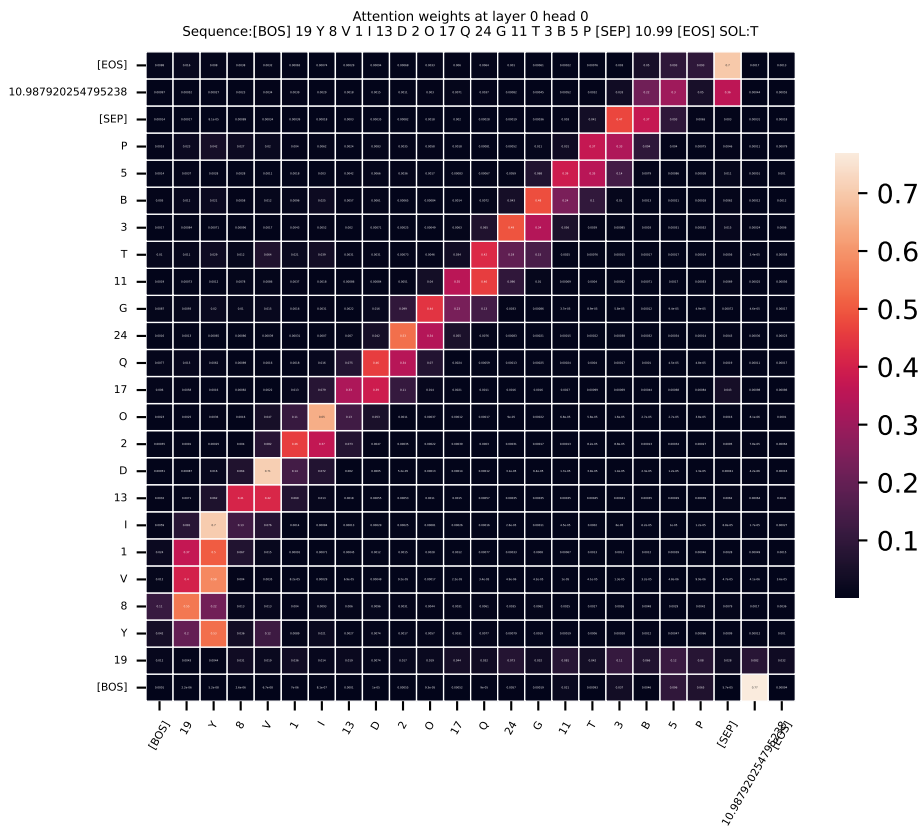
Attention weights at layer 0 head 0
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[EOS]
10.987920254795238
[SEP]
P
5
B
3
T
11
G
24
Q
17
O
2
D
13
I
1
V
8
Y
19
[BOS]
[BOS] 19 Y 8 V 1 I 13 D 2 O 17 Q 24 G 11 T 3 B 5 P [SEP] 10.99 [EOS] SOL:T
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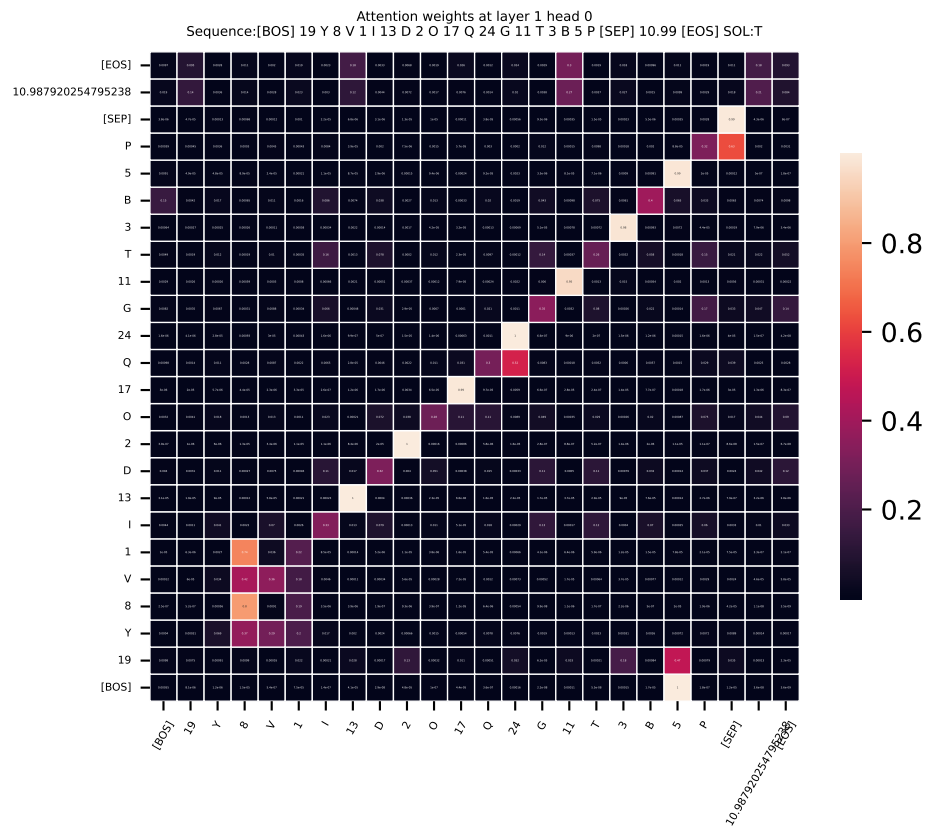
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10.987920254795238
[SEP]
P
5
B
3
T
11
G
24
Q
17
O
2
D
13
I
1
V
8
Y
19
[BOS]
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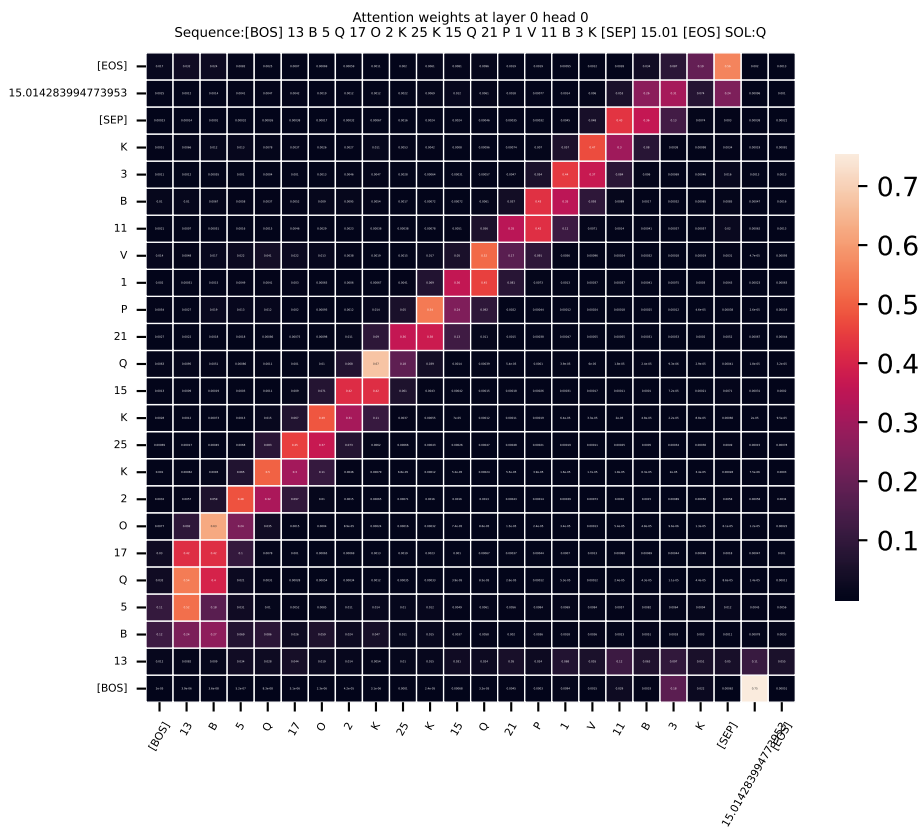
Attention weights at layer 0 head 0
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[EOS]
15.014283994773953
[SEP]
K
3
B
11
V
1
P
21
Q
15
K
25
K
2
O
17
Q
5
B
13
[BOS]
[BOS] 13 B 5 Q 17 O 2 K 25 K 15 Q 21 P 1 V 11 B 3 K [SEP] 15.014283994773953 [EOS]
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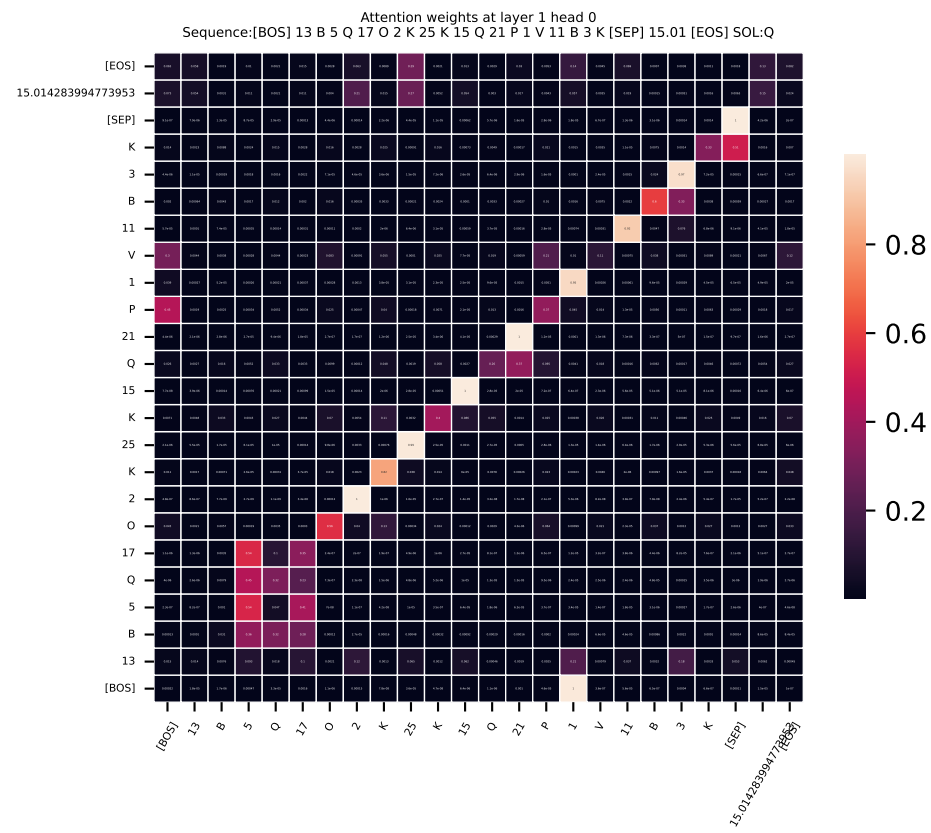
0.5
0.4
0.3
0.2
0.1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[EOS]
15.014283994773953
[SEP]
K
3
B
11
V
1
P
21
Q
15
K
25
K
2
O
17
Q
5
B
13
[BOS]
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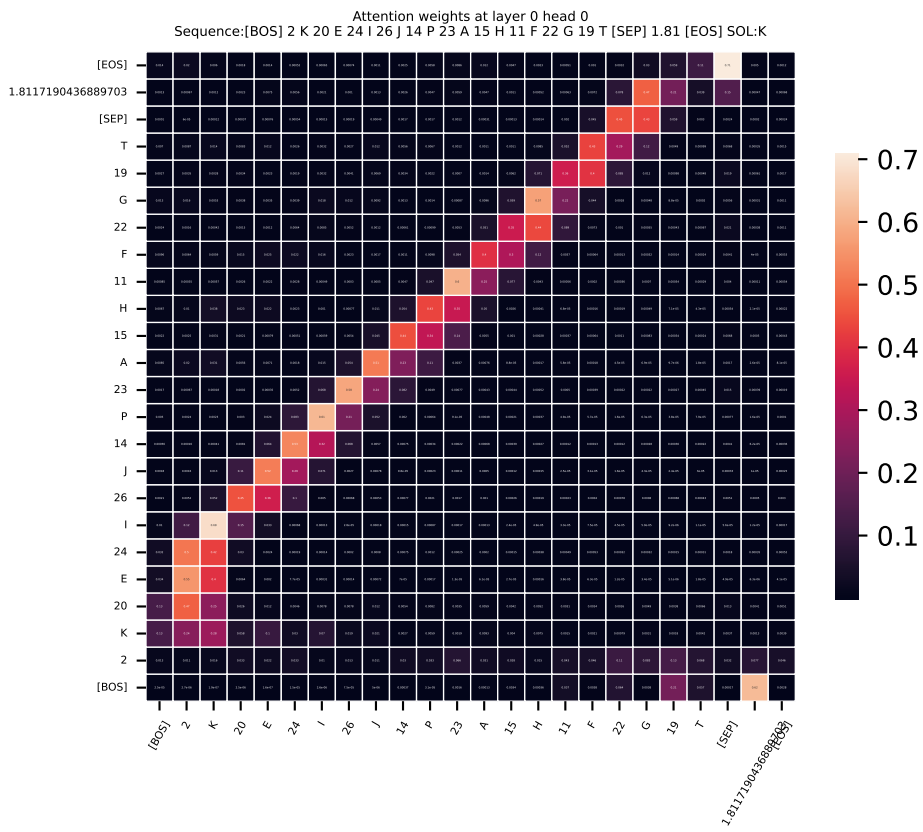
0.4
0.2


Attention weights at layer 0 head 0
Sequence:[BOS] 2 K 20 E 24 I 26 J 14 P 23 A 15 H 11 F 22 G 19 T [SEP] 1.81 [EOS] SOL:K
[EOS]
1.8117190436889703
[SEP]
T
19
G
22
F
11
H
15
A
23
P
14
J
26
I
24
E
20
K
2
[BOS]
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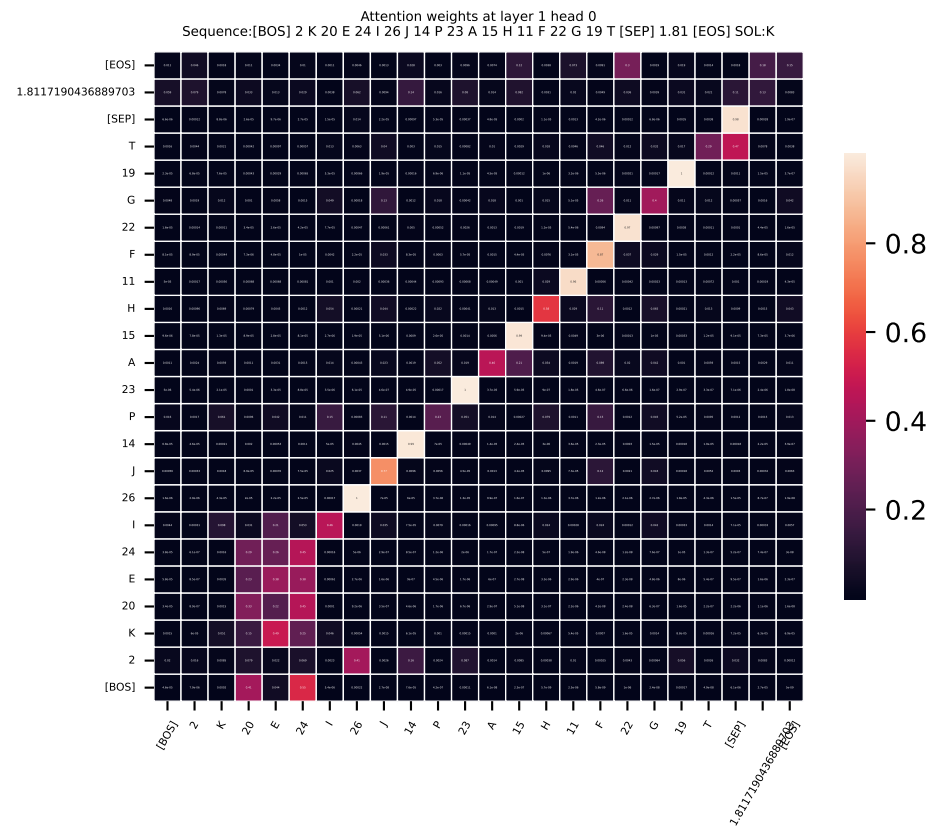
0.6
0.5
0.4
0.3
0.2
0.1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1.8117190436889703
[SEP]
T
19
G
22
F
11
H
15
A
23
P
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J
26
I
24
E
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K
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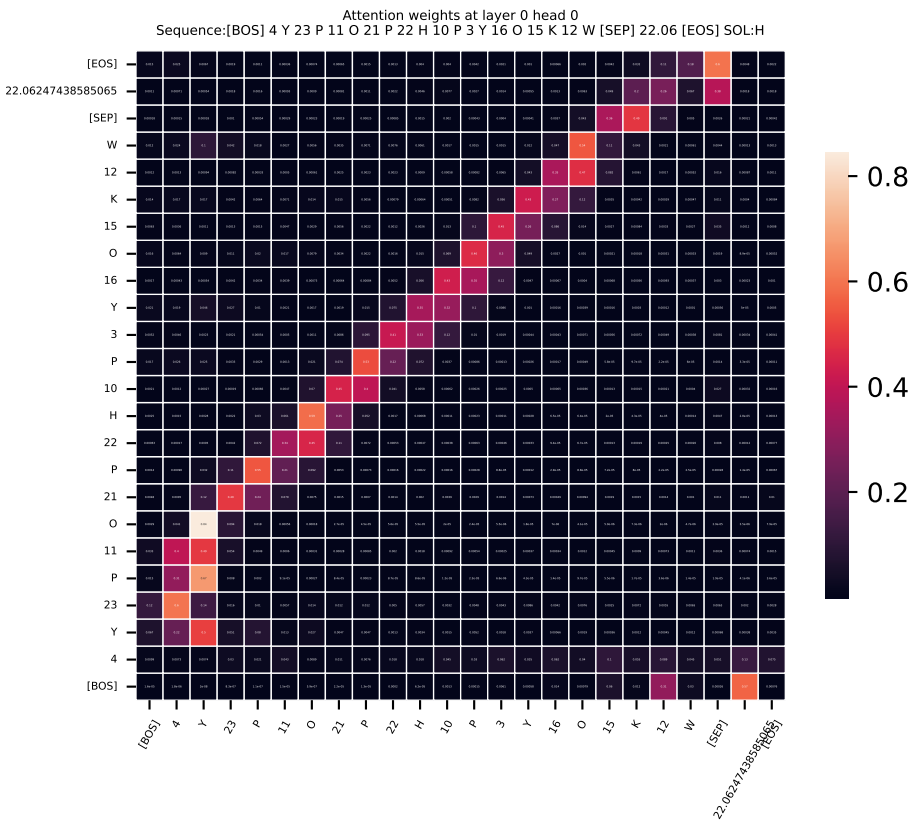
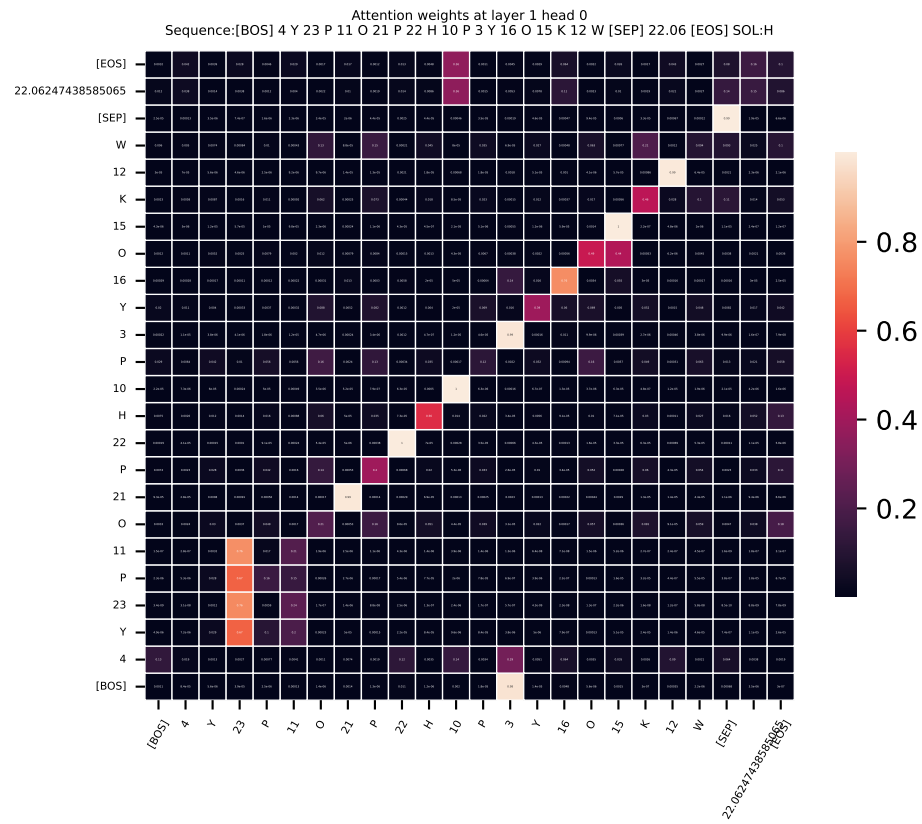

Attention weights at layer 0 head 0
Sequence:[BOS] 4 Y 23 P 11 O 21 P 22 H 10 P 3 Y 16 O 15 K 12 W [SEP] 22.06 [EOS] SOL:H
[EOS]
22.06247438585065
[SEP]
W
12
K
15
O
16
Y
3
P
10
H
22
P
21
O
11
P
23
Y
4
[BOS]
[BOS] 4 Y 23 P 11 O 21 P 22 H 10 P 3 Y 16 O 15 K 12 W [SEP] 22.06 [EOS] SOL:H
0.8
0.6
0.4
0.2


Attention weights at layer 1 head 0
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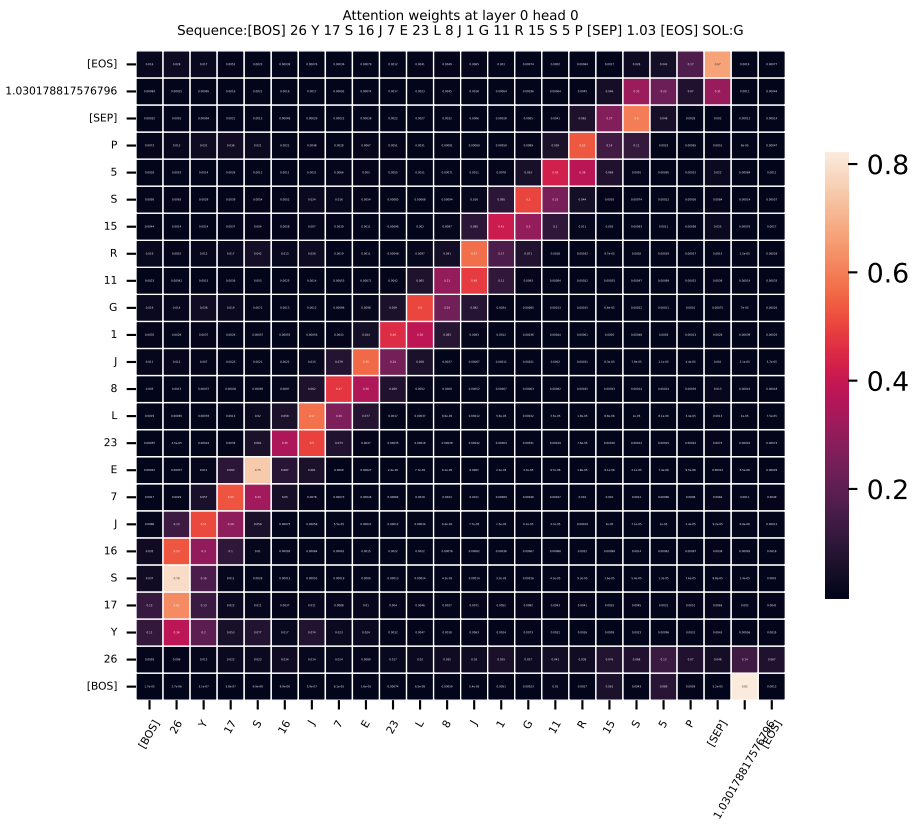
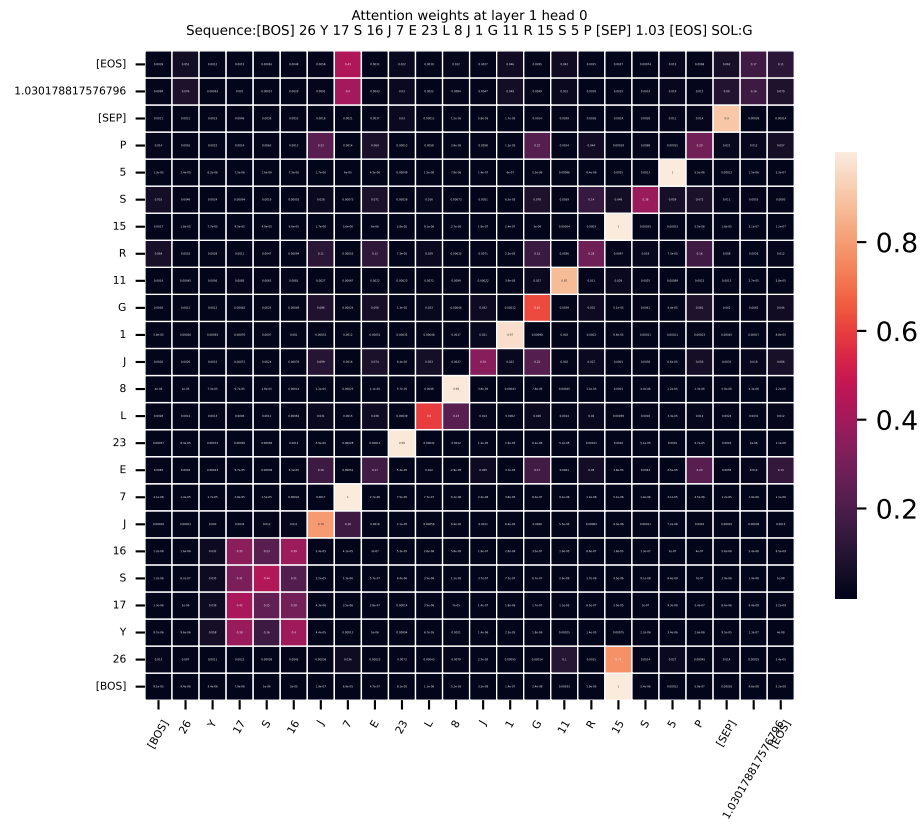
[EOS]
22.06247438585065
[SEP]
W
12
K
15
O
16
Y
3
P
10
H
22
P
21
O
11
P
23
Y
4
[BOS]
[BOS] 4 Y 23 P 11 O 21 P 22 H 10 P 3 Y 16 O 15 K 12 W [SEP] 22.06 [EOS] SOL:H
0.8
0.6
0.4
0.2


Attention weights at layer 0 head 0
Sequence:[BOS] 26 Y 17 S 16 J 7 E 23 L 8 J 1 G 11 R 15 S 5 P [SEP] 1.03 [EOS] SOL:G
[EOS]
1.030178817576796
[SEP]
P
5
S
15
R
11
G
1
J
8
L
23
E
7
J
16
S
17
Y
26
[BOS]
[BOS] 26 Y 17 S 16 J 7 E 23 L 8 J 1 G 11 R 15 S 5 P [SEP] 1.03 [EOS] SOL:G
0.8
0.6
0.4
0.2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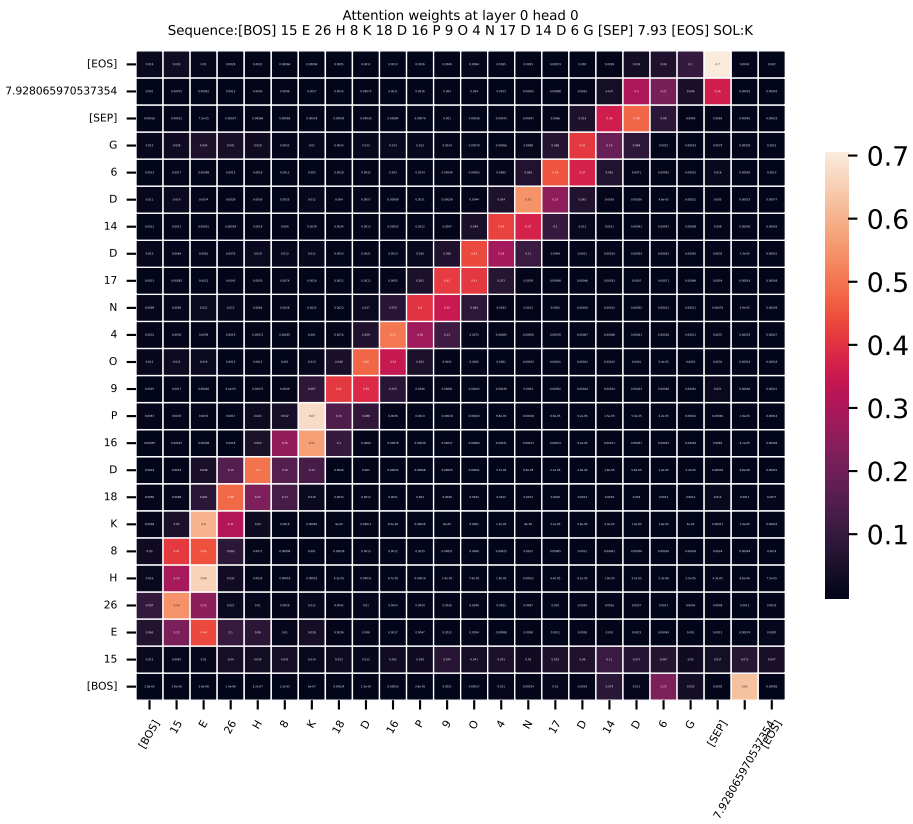
[EOS]
1.030178817576796
[SEP]
P
5
S
15
R
11
G
1
J
8
L
23
E
7
J
16
S
17
Y
26
[BOS]
[BOS] 26 Y 17 S 16 J 7 E 23 L 8 J 1 G 11 R 15 S 5 P [SEP] 1.03 [EOS] SOL:G
0.8
0.6
0.4
0.2


Attention weights at layer 0 head 0
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[EOS]
7.928065970537354
[SEP]
G
6
D
14
D
17
N
4
O
9
P
16
D
18
K
8
H
26
E
15
[BOS]
[BOS] 15 E 26 H 8 K 18 D 16 P 9 O 4 N 17 D 14 D 6 G [SEP] 7.93 [EOS] SOL:K
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0.6
0.5
0.4
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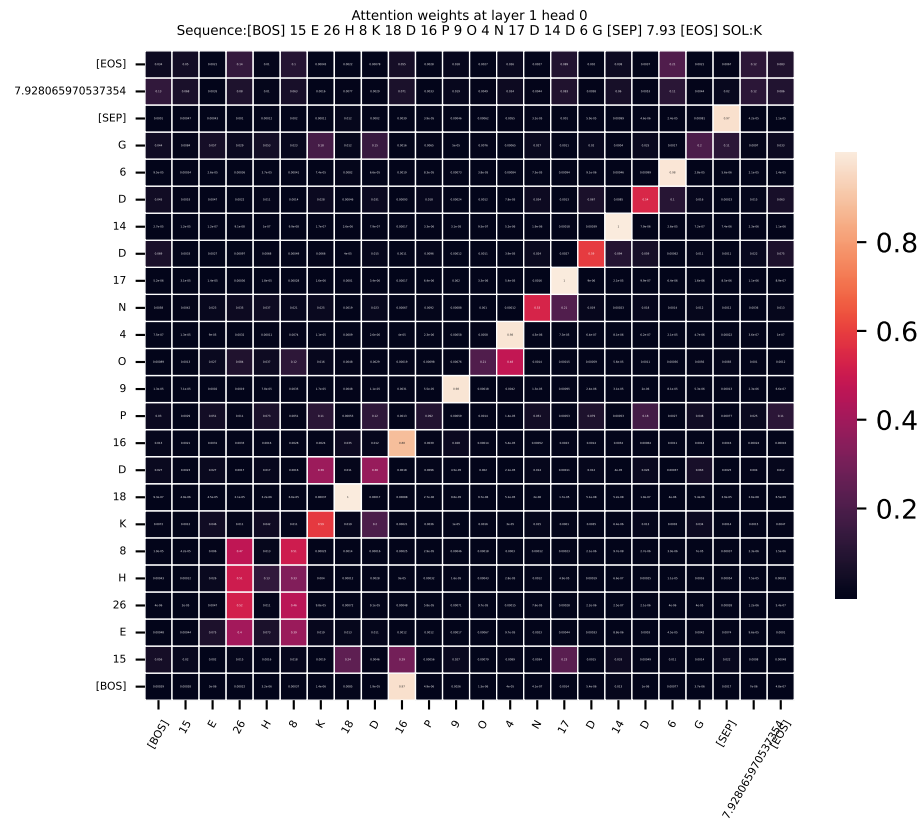
Attention weights at layer 1 head 0
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[SEP]
G
6
D
14
D
17
N
4
O
9
P
16
D
18
K
8
H
26
E
15
[BOS]
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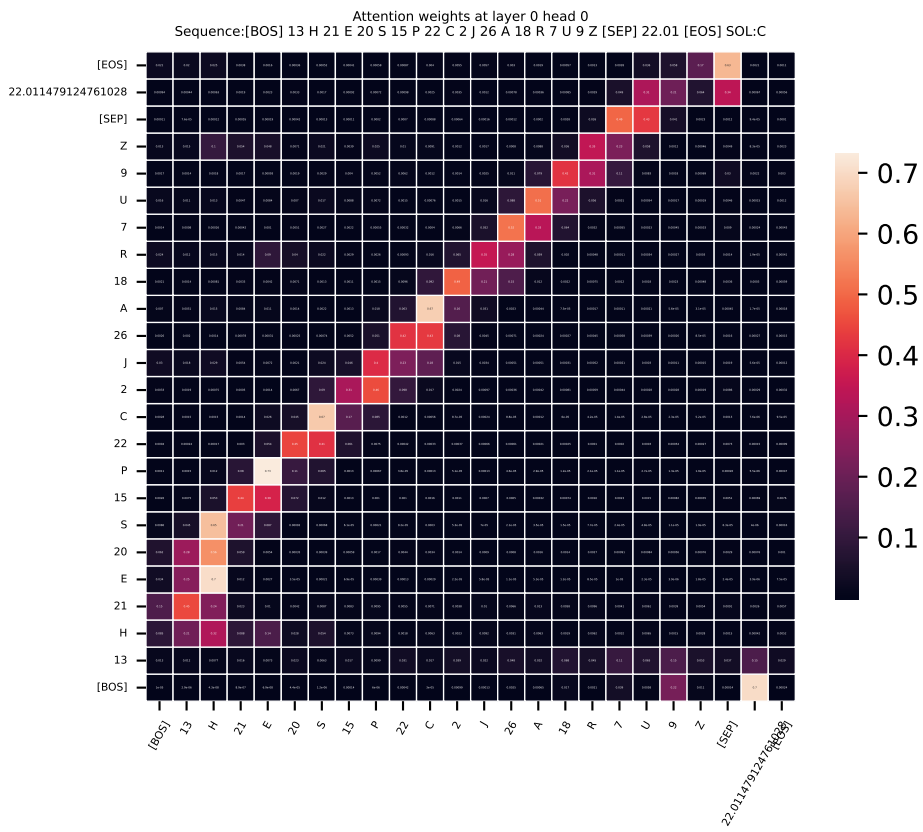
0.6
0.4
0.2


Attention weights at layer 0 head 0
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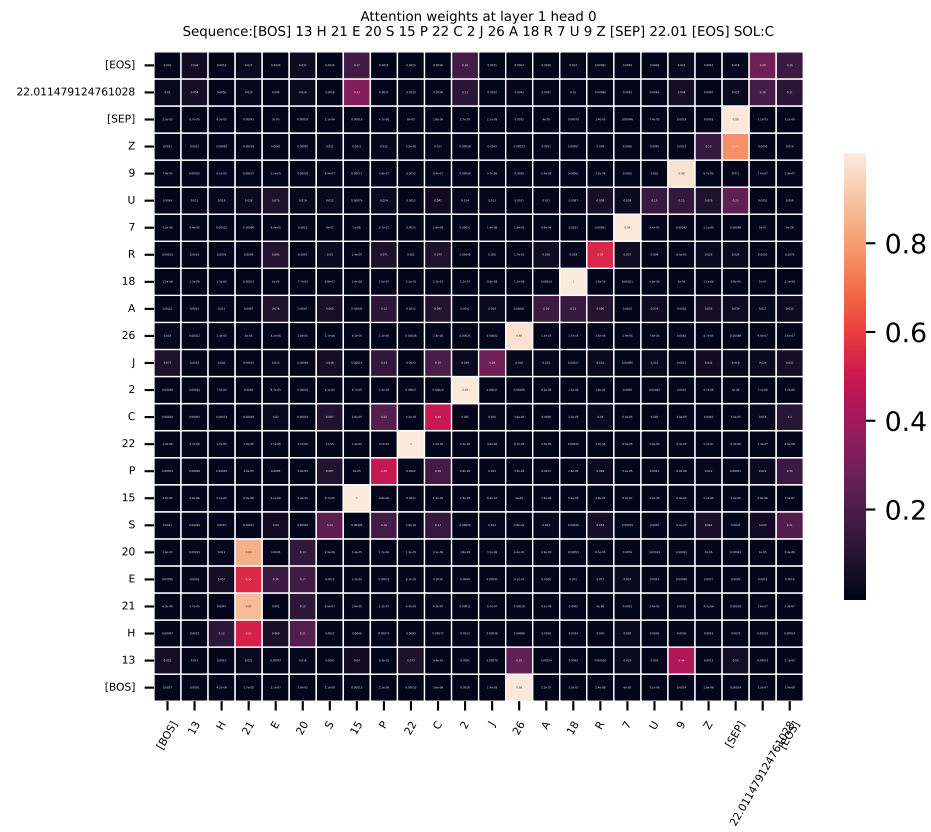
[EOS]
22.011479124761028
[SEP]
Z
9
U
7
R
18
A
26
J
2
C
22
P
15
S
20
E
21
H
13
[BOS]
0.7
0.6
0.5
0.4
0.3
0.2
0.1


Attention weights at layer 1 head 0
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[EOS]
22.011479124761028
[SEP]
Z
9
U
7
R
18
A
26
J
2
C
22
P
15
S
20
E
21
H
13
[BOS]
0.8
0.6
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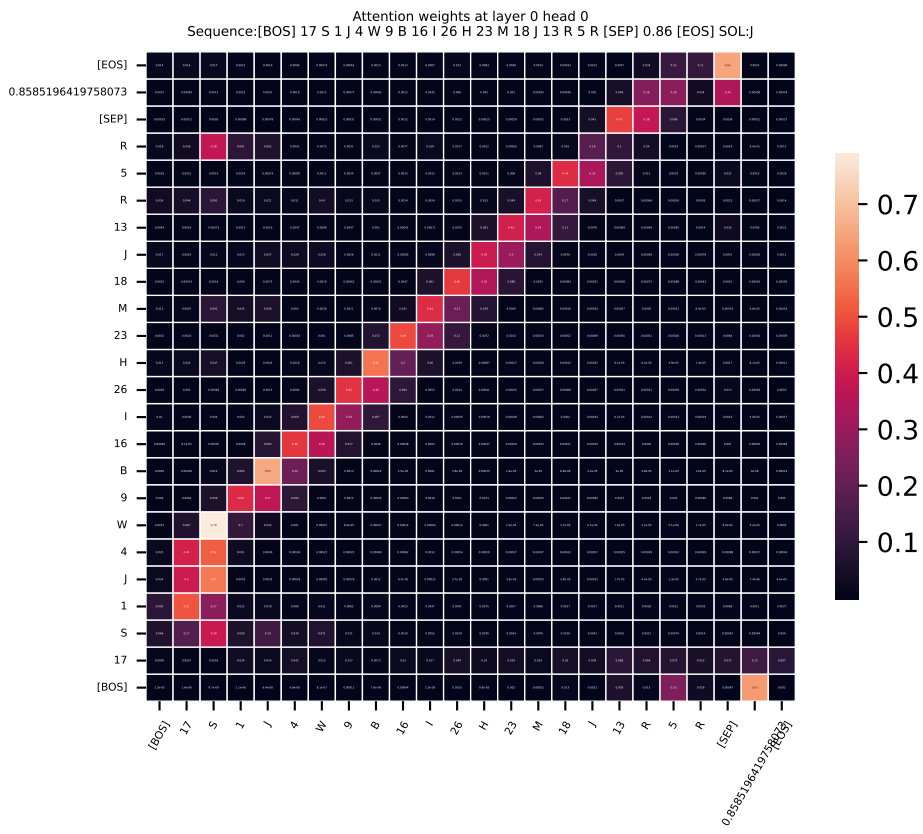
0.2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[EOS]
0.8585196419758073
[SEP]
R
5
R
13
J
18
M
23
H
26
I
16
B
9
W
4
J
1
S
17
[BOS]
[BOS]
17
S
1
J
4
W
9
B
16
I
26
H
23
M
18
J
13
R
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R
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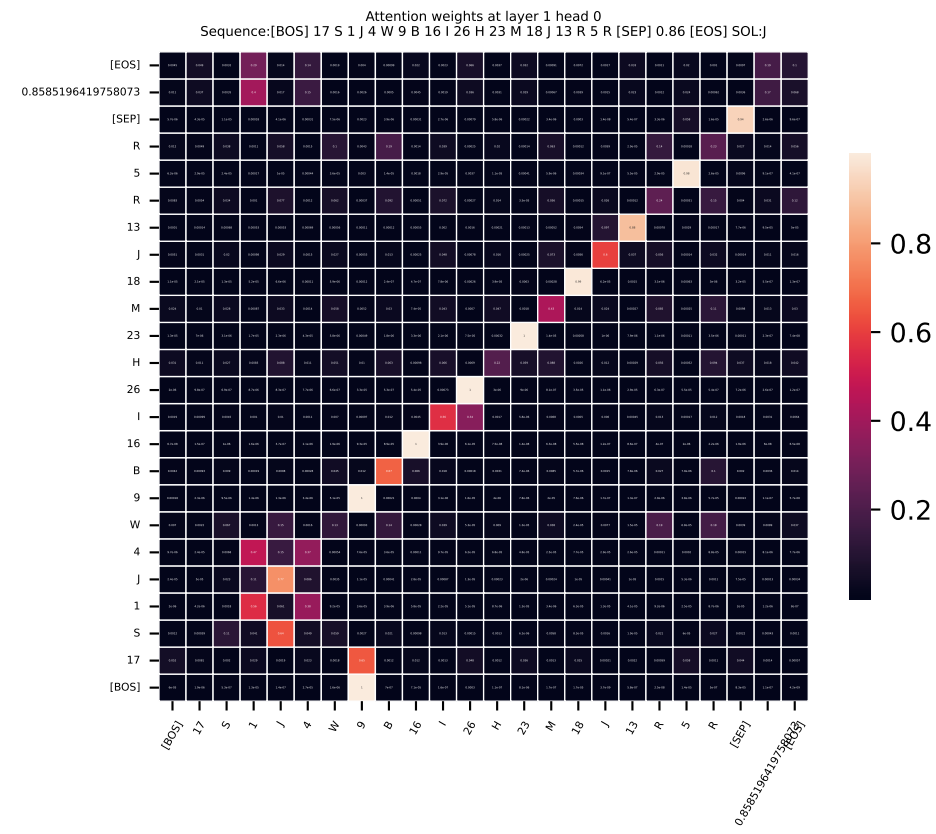
Attention weights at layer 1 head 0
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[SEP]
R
5
R
13
J
18
M
23
H
26
I
16
B
9
W
4
J
1
S
17
[BOS]
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1
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4
W
9
B
16
I
26
H
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R
5
R
[SEP]
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[EOS]
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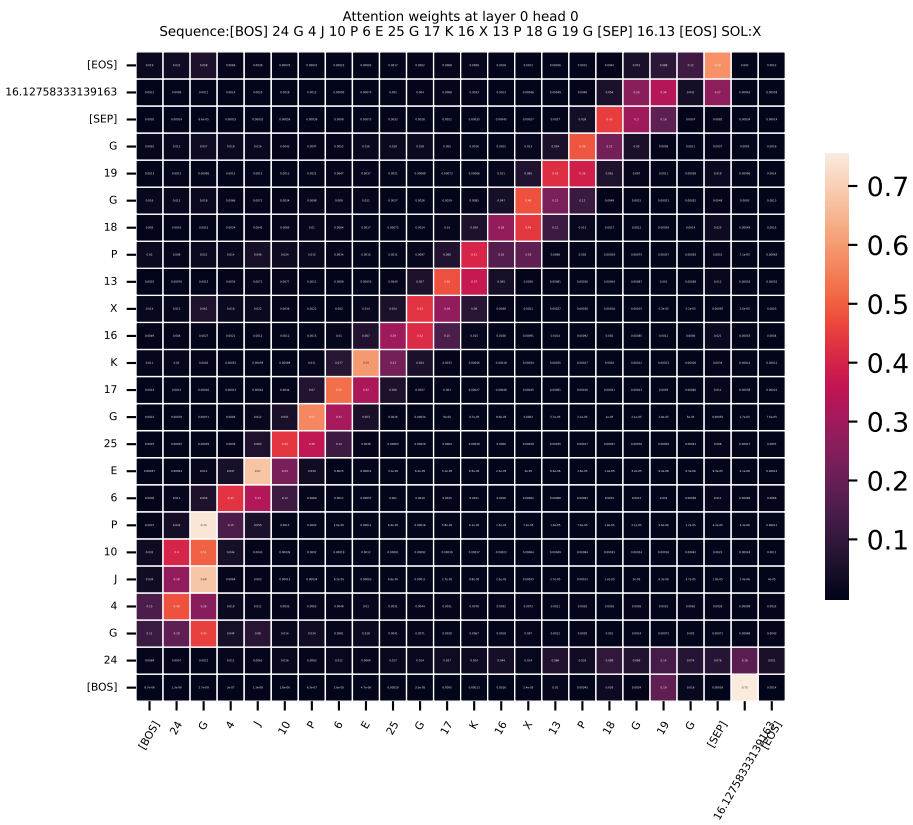
0.2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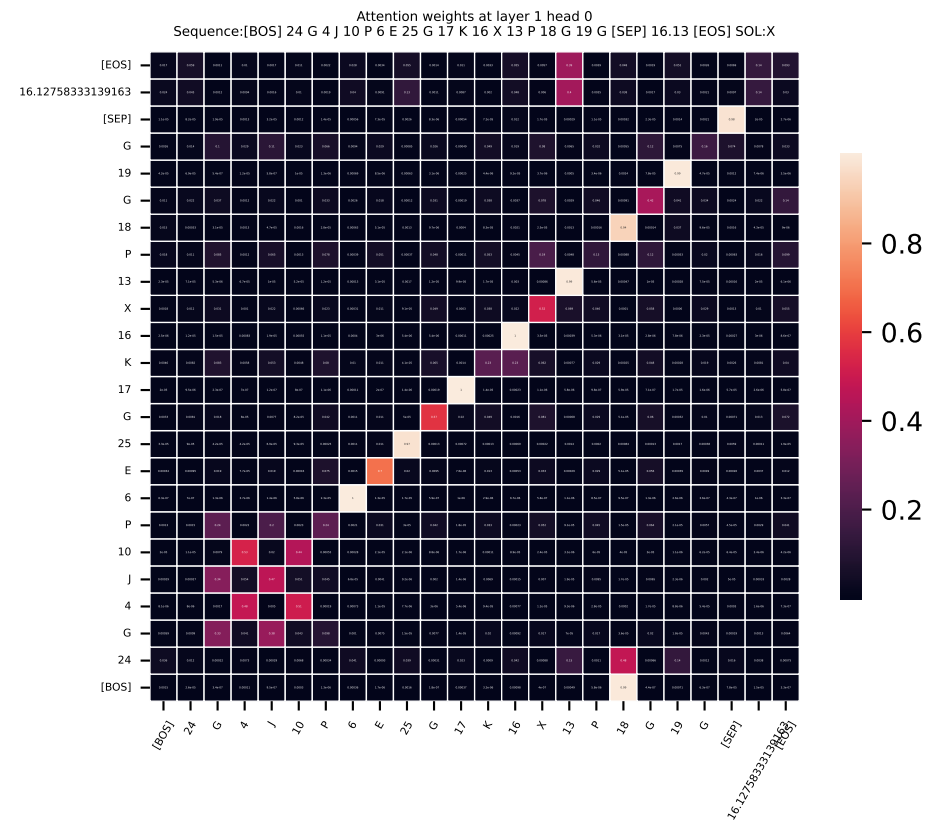
[EOS]
16.12758333139163
[SEP]
G
19
G
18
P
13
X
16
K
17
G
25
E
6
P
10
J
4
G
24
[BOS]
[BOS] 24 G 4 J 10 P 6 E 25 G 17 K 16 X 13 P 18 G 19 G [SEP] 16.13 [EOS]
0.7
0.6
0.5
0.4
0.3
0.2
0.1


Attention weights at layer 1 head 0
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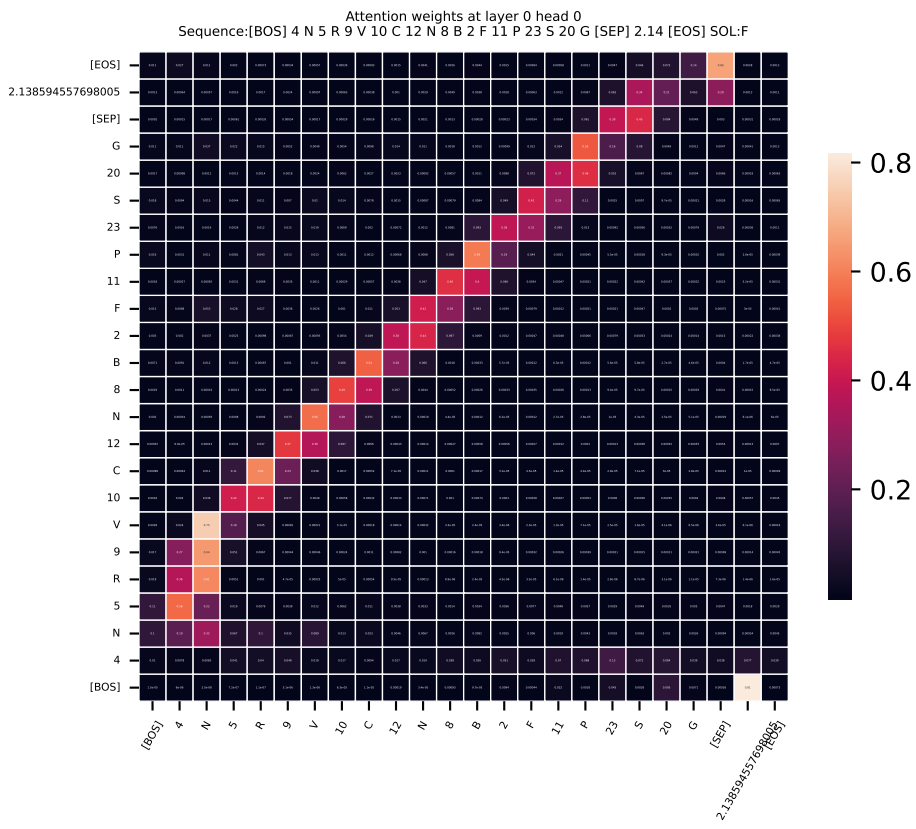
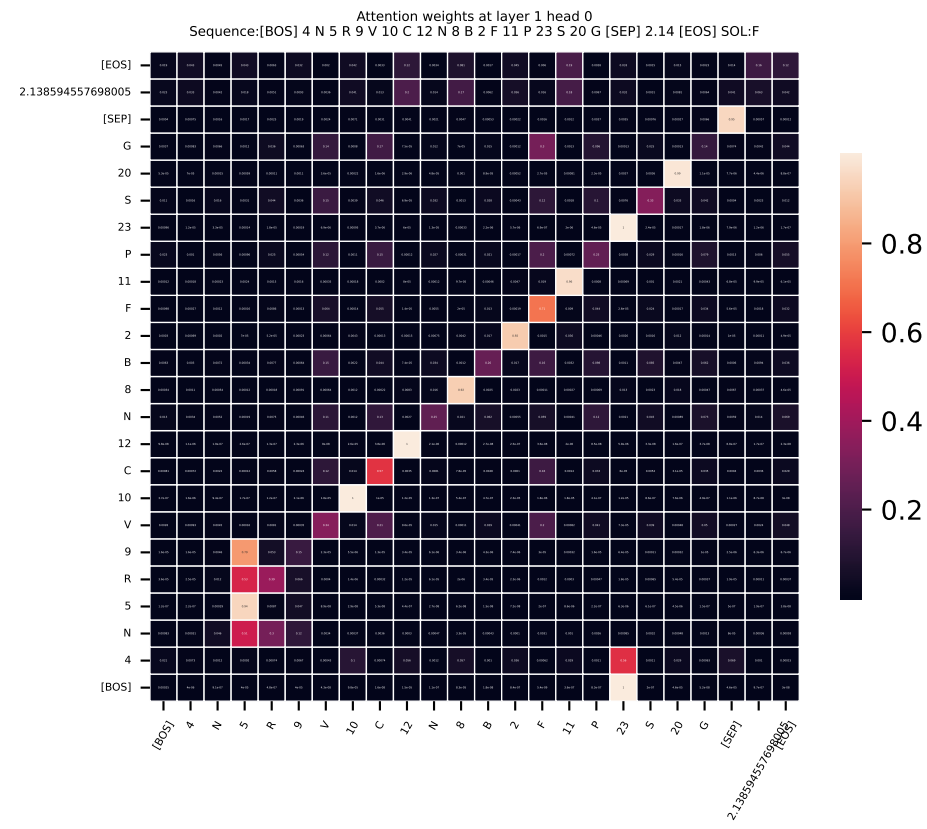
[EOS]
16.12758333139163
[SEP]
G
19
G
18
P
13
X
16
K
17
G
25
E
6
P
10
J
4
G
24
[BOS]
[BOS] 24 G 4 J 10 P 6 E 25 G 17 K 16 X 13 P 18 G 19 G [SEP] 16.13 [EOS]
0.8
0.6
0.4
0.2


Attention weights at layer 0 head 0
Sequence:[BOS] 4 N 5 R 9 V 10 C 12 N 8 B 2 F 11 P 23 S 20 G [SEP] 2.14 [EOS] SOL:F
[EOS]
2.138594557698005
[SEP]
G
20
S
23
P
11
F
2
B
8
N
12
C
10
V
9
R
5
N
4
[BOS]
[BOS] 4 N 5 R 9 V 10 C 12 N 8 B 2 F 11 P 23 S 20 G [SEP] 2.14 [EOS] SOL:F
0.8
0.6
0.4
0.2


Attention weights at layer 1 head 0
Sequence:[BOS] 4 N 5 R 9 V 10 C 12 N 8 B 2 F 11 P 23 S 20 G [SEP] 2.14 [EOS] SOL:F
[EOS]
2.138594557698005
[SEP]
G
20
S
23
P
11
F
2
B
8
N
12
C
10
V
9
R
5
N
4
[BOS]
[BOS] 4 N 5 R 9 V 10 C 12 N 8 B 2 F 11 P 23 S 20 G [SEP] 2.14 [EOS] SOL:F
0.8
0.6
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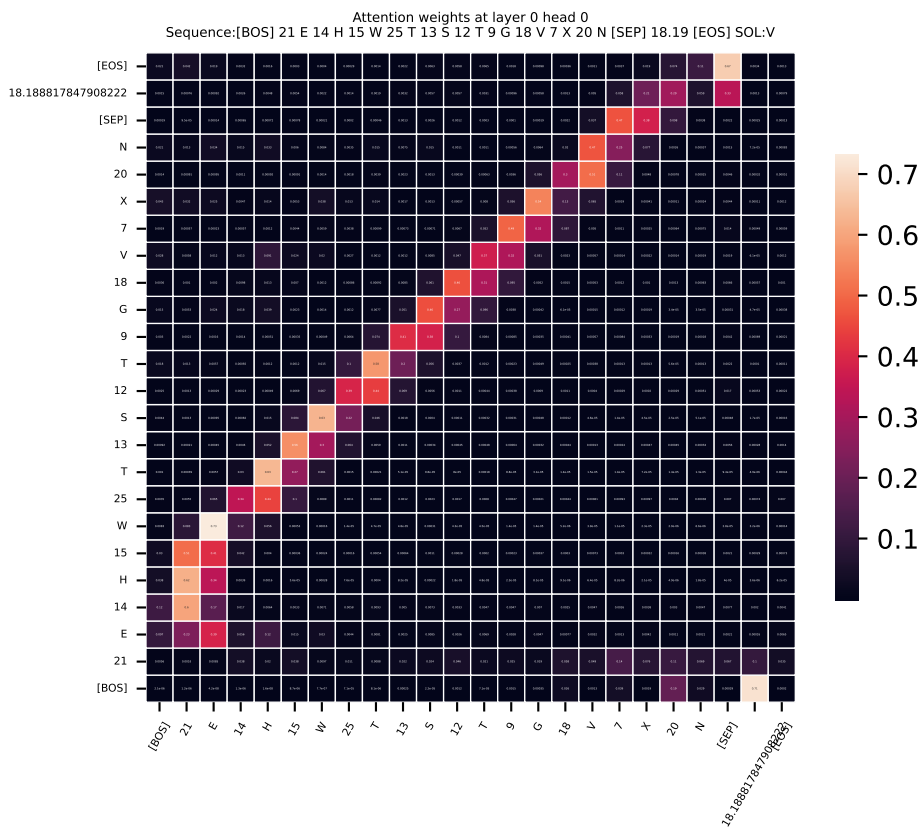
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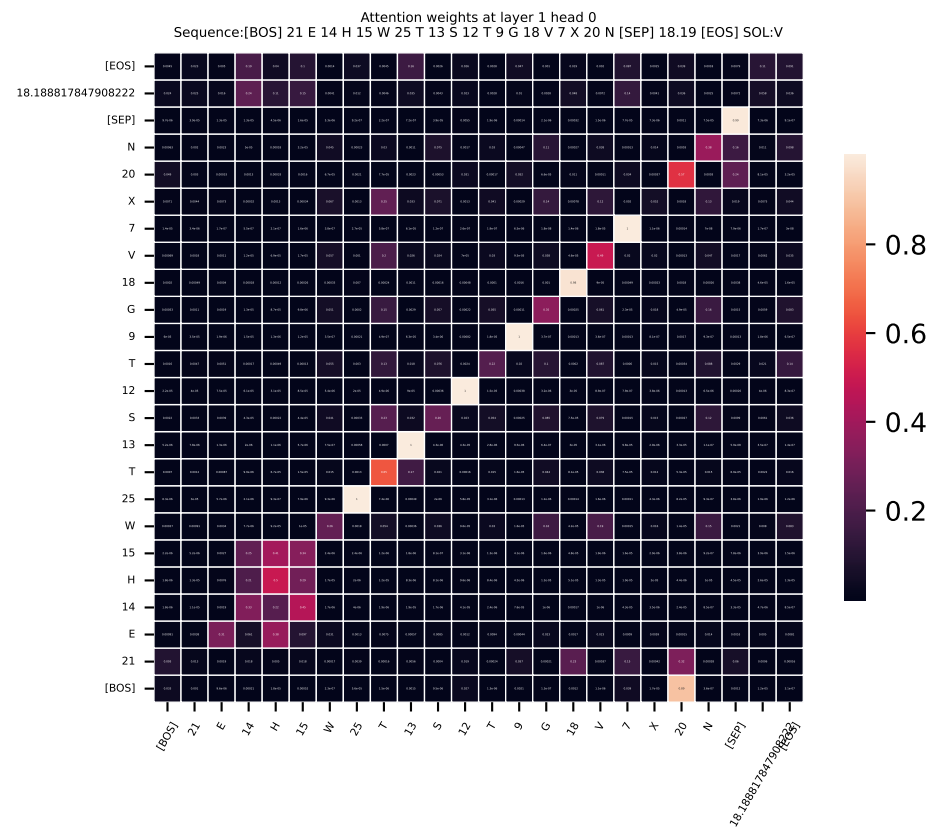
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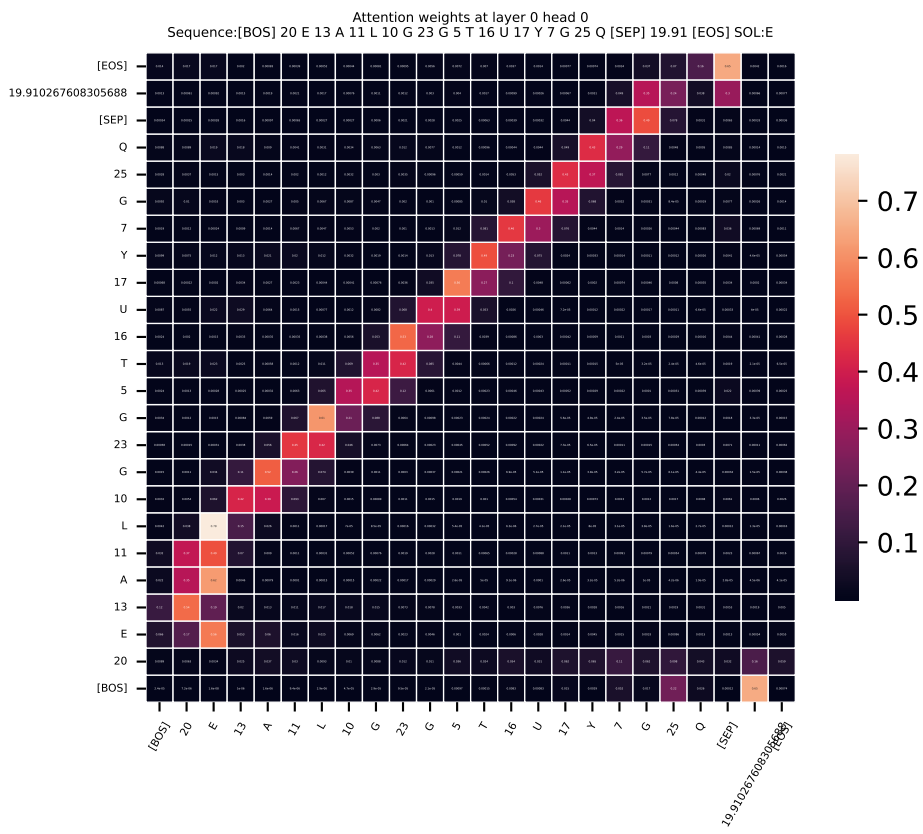
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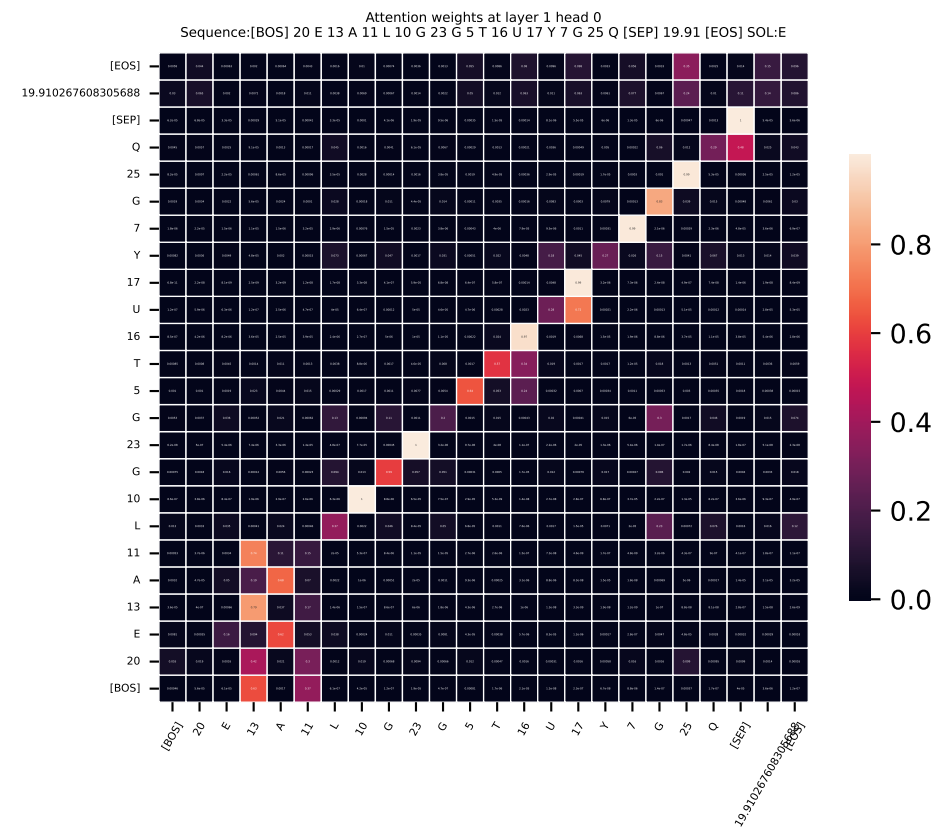
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