

0.1336, 0.1410, 0.0357, -0.0410, -0.1831, 0.1018, -0.1111, -0.0681,
 -0.0208, 0.2748, 0.0086, -0.0383, -0.1625, 0.0084],
 [0.0866, 0.1068, -0.0308, -0.0681, 0.1640, -0.0909, -0.2316,
 -0.0728, 0.1211, 0.0211, -0.0501, -0.2051, 0.1293, -0.1141, -0.0703,
 0.1222, -0.0138, 0.2506, 0.0359, 0.0079, -0.1613, 0.0282],
 [0.0944, 0.1024, -0.0240, -0.0745, 0.1681, -0.0889, -0.2359,
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 0.1163, -0.0053, 0.2523, 0.0359, 0.0039, -0.1662, 0.0152],
 [0.0957, 0.1061, -0.0302, -0.0677, 0.1682, -0.0892, -0.2377,
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 [0.0962, 0.1077, -0.0277, -0.0702, 0.1667, -0.0896, -0.2398,
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 [0.0962, 0.1076, -0.0284, -0.0691, 0.1683, -0.0901, -0.2421,
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 'Counter/IL/word/<word_label>/functionalsensor-3': {tensor([[-0.0330,
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 0.0093, -0.1373, 0.3782, 0.1570, 0.2718, 0.1202, -0.0427],
 [0.0398, 0.1071, 0.1367, -0.1082, 0.2354, 0.0387, -0.2037,
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 0.2165, 0.0137, 0.1966, 0.1273, -0.0353, -0.2151, 0.0245],
 [0.1260, 0.1279, -0.1509, -0.0590, 0.1322, -0.1539, -0.0281,
 0.1505, 0.0720, -0.1117, -0.1268, -0.2537, -0.0476, -0.0490, 0.0795,

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0.1135,
    -0.1690,  0.1659,  0.1581, -0.0601,  0.0398,  0.0598],
    [ 0.0363,  0.0926, -0.1020, -0.0125,  0.1672, -0.1270, -0.1342,
-0.0030,
    0.0247, -0.0484, -0.0132, -0.2415,  0.1597, -0.0696,  0.0690,
0.1225,
    0.0286,  0.2311,  0.0213,  0.0380, -0.0938,  0.0112],
    [ 0.0678,  0.1251, -0.0151, -0.0747,  0.1488, -0.0836, -0.1980,
-0.0880,
    0.1216,  0.0725, -0.0785, -0.2462,  0.1294, -0.1599, -0.0971,
0.1331,
    -0.0242,  0.2561,  0.0222, -0.0434, -0.1661, -0.0236],
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-0.0748,
    0.1410,  0.0357, -0.0410, -0.1831,  0.1018, -0.1111, -0.0681,
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    -0.0208,  0.2748,  0.0086, -0.0383, -0.1625,  0.0084]]):
{'counter': 1, 'recent': True}},
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-0.0030,
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    0.0286,  0.2311,  0.0213,  0.0380, -0.0938,  0.0112],
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-0.0880,
    0.1216,  0.0725, -0.0785, -0.2462,  0.1294, -0.1599, -0.0971,
0.1331,
    -0.0242,  0.2561,  0.0222, -0.0434, -0.1661, -0.0236],
    [ 0.0972,  0.0971, -0.0220, -0.0603,  0.1549, -0.0936, -0.2529,
-0.0748,

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0.1410, 0.0357, -0.0410, -0.1831, 0.1018, -0.1111, -0.0681,  
0.1336,  
-0.0208, 0.2748, 0.0086, -0.0383, -0.1625, 0.0084]]),  
'CounterGetDataNode': 2}  
True  
Learner_sentence: the of below the of of of of  
Situation: ['re1(t1)', 'tr1(t1)', 'le2(t2,t1)', 'sm1(t2)', 'or1(t2)',  
'ci1(t2)']  
['triangle', 'small', 'ellipse', 'the', 'below', 'star', 'medium',  
'big', 'above', 'hexagon', 'right', 'square', 'orange', 'red', 'left',  
'circle', 'yellow', 'of', 'green', 'blue', 'to', 'purple']  
Output Labels: tensor([ 6, 18, 11, 8, 7, 18, 9])  
Prediction size (before): 12  
Expected size (before): 7  
Model output is larger than expected!  
{'situation': [['me1(t1)', 'gr1(t1)', 'sq1(t1)', 'ab2(t1,t2)',  
'bi1(t2)', 'gr1(t2)', 'he1(t2)']], 'utterance': [['medium', 'green',  
'square', 'above', 'big', 'green', 'hexagon']], 'graph':  
Graph(name='IL', fullname='IL'), 'READER': 0, 'Counter_setitem': 20,  
'Counter/IL/utterance/tokenized_text_situation/readersensor':  
{(('me1(t1)', 'gr1(t1)', 'sq1(t1)', 'ab2(t1,t2)', 'bi1(t2)', 'gr1(t2)',  
'he1(t2)'),): {'counter': 1, 'recent': True}}, 'dataNode': [utterance  
0], 'IL/utterance/index': [utterance 0],  
ReaderSensor(name='readersensor', fullname='IL/utterance/  
tokenized_text_situation/readersensor'): [['me1(t1)', 'gr1(t1)',  
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'DataNodeTime': 0.011994361877441406,  
Property(name='tokenized_text_situation', fullname='IL/utterance/  
tokenized_text_situation'): [['me1(t1)', 'gr1(t1)', 'sq1(t1)',  
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tokenized_text_utterance/readersensor-1': {(('medium', 'green',  
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utterance/tokenized_text_utterance/readersensor-1'): [['medium',  
'green', 'square', 'above', 'big', 'green', 'hexagon']],  
Property(name='tokenized_text_utterance', fullname='IL/utterance/  
tokenized_text_utterance'): [['medium', 'green', 'square', 'above',  
'big', 'green', 'hexagon']], JointSensor(name='jointsensor',  
fullname='IL/word/(Contains(name='utterance-contains-1-word',  
fullname='IL/utterance-contains-1-word')), 'situation_token',  
'utterance_token')/jointsensor'): (tensor([[1.]  
[1.]  
[1.]  
[1.]  
[1.]
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```

[1.]], ['me1(t1)', 'gr1(t1)', 'sq1(t1)', 'ab2(t1,t2)',
'bi1(t2)', 'gr1(t2)', 'he1(t2)'], ['medium', 'green', 'square', 'above',
'big', 'green', 'hexagon']), Property(name='(Contains(name='utterance-
contains-1-word', fullname='IL/utterance-contains-1-word'),
'situation_token', 'utterance_token')', fullname='IL/word/
(Contains(name='utterance-contains-1-word', fullname='IL/utterance-
contains-1-word'), 'situation_token', 'utterance_token')'):
(tensor([[1.],
[1.],
[1.],
[1.],
[1.],
[1.]]), ['me1(t1)', 'gr1(t1)', 'sq1(t1)', 'ab2(t1,t2)',
'bi1(t2)', 'gr1(t2)', 'he1(t2)'], ['medium', 'green', 'square', 'above',
'big', 'green', 'hexagon']), 'Counter/IL/word/utterance-contains-1-word/
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[1.],
[1.],
[1.],
[1.]]): {'counter': 1, 'recent': True}}, 'IL/word/index': [word
0, word 1, word 2, word 3, word 4, word 5, word 6],
EdgeSensor(name='edgesensor', fullname='IL/word/utterance-contains-1-
word/edgesensor'): tensor([[1.],
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[1.],
[1.]]), Property(name='utterance-contains-1-word', fullname='IL/
word/utterance-contains-1-word'): tensor([[1.],
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({'medium', 'green', 'square', 'above', 'big', 'green', 'hexagon'):
{'counter': 1, 'recent': True}},
FunctionalSensor(name='functionalsensor-1', fullname='IL/word/
utterance_token/functionalsensor-1'): ['medium', 'green', 'square',
'above', 'big', 'green', 'hexagon'], Property(name='utterance_token',
fullname='IL/word/utterance_token'): ['medium', 'green', 'square',
'above', 'big', 'green', 'hexagon'], 'Counter/IL/word/<word_label>/

```

```

functionalsensor-2': {tensor([ 6, 18, 11,  8,  7, 18,  9]): {'counter':
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fullname='IL/word/<word_label>/functionalsensor-2'): tensor([ 6, 18, 11,
8,  7, 18,  9]), Property(name='word_label', fullname='IL/word/
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0.1754,
        -0.1031,  0.3440,  0.2142, -0.0626, -0.0043,  0.0458],
[-0.0836,  0.0259,  0.0243, -0.1443,  0.1581,  0.0355, -0.2333,
-0.2297,
        0.0916,  0.0010, -0.0520, -0.0613,  0.2520, -0.1246, -0.0203,
0.1143,
        0.2871,  0.3013,  0.0417,  0.1178, -0.1829, -0.0889],
[ 0.0202, -0.0011, -0.1927, -0.0227,  0.1886, -0.1815, -0.2122,
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        0.0789,  0.0966, -0.0454, -0.2129,  0.0602, -0.0982, -0.1756,
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        0.0590,  0.2324,  0.0512,  0.0919, -0.0840,  0.0044],
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        -0.0162,  0.2458,  0.0789,  0.0221, -0.1569,  0.0206],
[ 0.0977,  0.0404, -0.0516, -0.0974,  0.1710, -0.1477, -0.2525,
-0.1028,
        0.1086,  0.0886, -0.1032, -0.1942,  0.0790, -0.1244, -0.0898,
0.1224,
        0.0120,  0.2783,  0.0285,  0.0249, -0.1966, -0.0268],
[ 0.0910,  0.0409, -0.0542, -0.0946,  0.1845, -0.1374, -0.2145,
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        0.0885,  0.0594, -0.0742, -0.2232,  0.0841, -0.0953, -0.0637,
0.1175,
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'Counter/IL/utterance/situation_vectorized/situationrepsensor':
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        [24],
        [14],
        [ 7],
        [11],

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[13]]): {'counter': 1, 'recent': True}},
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[ 7],
[11],
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utterance/situation_vectorized'): tensor([[ 9],
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[14],
[ 7],
[11],
[13]]), 'Counter/IL/word/word_probabilities/modulelearner':
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0.1379, -0.1662, -0.1223,  0.0138,  0.1541, -0.0249,  0.0076,
0.1754,
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[-0.0836,  0.0259,  0.0243, -0.1443,  0.1581,  0.0355, -0.2333,
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0.0916,  0.0010, -0.0520, -0.0613,  0.2520, -0.1246, -0.0203,
0.1143,
0.2871,  0.3013,  0.0417,  0.1178, -0.1829, -0.0889],
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'bi1(t2)', 'gr1(t2)', 'he1(t2)'], ['medium', 'green', 'square', 'above',
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 [0.0876, 0.0456, -0.0564, -0.0933, 0.1698, -0.1389, -0.2214,
 -0.1016,
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 0.1179,

```

0.0165, 0.2698, 0.0386, 0.0429, -0.1818, -0.0324],
[ 0.0889, 0.0454, -0.0559, -0.0940, 0.1698, -0.1390, -0.2214,
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0.1180,
0.0168, 0.2699, 0.0380, 0.0423, -0.1820, -0.0335],
[ 0.0887, 0.0455, -0.0557, -0.0947, 0.1699, -0.1387, -0.2216,
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0.0965, 0.0681, -0.0792, -0.2165, 0.0892, -0.1025, -0.0714,
0.1186,
0.0163, 0.2700, 0.0382, 0.0423, -0.1828, -0.0335]]):
{'counter': 1, 'recent': True}}, ModuleLearner(name='modulelearner',
fullname='IL/word/word_probabilities/modulelearner'): tensor([[ 0.1550,
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0.1754,
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[-0.0836, 0.0259, 0.0243, -0.1443, 0.1581, 0.0355, -0.2333,
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0.2871, 0.3013, 0.0417, 0.1178, -0.1829, -0.0889],
[ 0.0202, -0.0011, -0.1927, -0.0227, 0.1886, -0.1815, -0.2122,
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0.0590, 0.2324, 0.0512, 0.0919, -0.0840, 0.0044],
[ 0.0782, 0.0255, -0.0815, -0.0946, 0.1268, -0.1816, -0.2347,
-0.0844,
0.1139, 0.0731, -0.0798, -0.2066, 0.0989, -0.1279, -0.1145,
0.1338,
-0.0162, 0.2458, 0.0789, 0.0221, -0.1569, 0.0206],
[ 0.0977, 0.0404, -0.0516, -0.0974, 0.1710, -0.1477, -0.2525,
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0.1086, 0.0886, -0.1032, -0.1942, 0.0790, -0.1244, -0.0898,
0.1224,
0.0120, 0.2783, 0.0285, 0.0249, -0.1966, -0.0268],
[ 0.0910, 0.0409, -0.0542, -0.0946, 0.1845, -0.1374, -0.2145,
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0.0160, 0.2632, 0.0361, 0.0426, -0.1829, -0.0347],
[ 0.0896, 0.0425, -0.0531, -0.1020, 0.1719, -0.1364, -0.2170,
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    0.0108, 0.2685, 0.0379, 0.0423, -0.1814, -0.0378],
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    0.0162, 0.2690, 0.0401, 0.0440, -0.1837, -0.0320],
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    0.0165, 0.2698, 0.0386, 0.0429, -0.1818, -0.0324],
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  [ 0.0887, 0.0455, -0.0557, -0.0947, 0.1699, -0.1387, -0.2216,
-0.1033,
    0.0965, 0.0681, -0.0792, -0.2165, 0.0892, -0.1025, -0.0714,
0.1186,
    0.0163, 0.2700, 0.0382, 0.0423, -0.1828, -0.0335]]),
Property(name='word_probabilities', fullname='IL/word/
word_probabilities'): tensor([[ 0.1550, 0.2046, -0.0037, -0.0100,
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0.1754,
    -0.1031, 0.3440, 0.2142, -0.0626, -0.0043, 0.0458],
  [-0.0836, 0.0259, 0.0243, -0.1443, 0.1581, 0.0355, -0.2333,
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    0.2871, 0.3013, 0.0417, 0.1178, -0.1829, -0.0889],
  [ 0.0202, -0.0011, -0.1927, -0.0227, 0.1886, -0.1815, -0.2122,
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    0.0590, 0.2324, 0.0512, 0.0919, -0.0840, 0.0044],
  [ 0.0782, 0.0255, -0.0815, -0.0946, 0.1268, -0.1816, -0.2347,
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0.1338,

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        0.1086, 0.0886, -0.1032, -0.1942, 0.0790, -0.1244, -0.0898,
0.1224,
        0.0120, 0.2783, 0.0285, 0.0249, -0.1966, -0.0268],
    [ 0.0910, 0.0409, -0.0542, -0.0946, 0.1845, -0.1374, -0.2145,
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    [ 0.0878, 0.0448, -0.0563, -0.0972, 0.1672, -0.1383, -0.2175,
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        0.0950, 0.0659, -0.0760, -0.2163, 0.0879, -0.1009, -0.0687,
0.1195,
        0.0128, 0.2707, 0.0402, 0.0415, -0.1867, -0.0353],
    [ 0.0876, 0.0446, -0.0558, -0.0937, 0.1685, -0.1379, -0.2195,
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    [ 0.0876, 0.0456, -0.0564, -0.0933, 0.1698, -0.1389, -0.2214,
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0.1180,
        0.0168, 0.2699, 0.0380, 0.0423, -0.1820, -0.0335],
    [ 0.0887, 0.0455, -0.0557, -0.0947, 0.1699, -0.1387, -0.2216,
-0.1033,
        0.0965, 0.0681, -0.0792, -0.2165, 0.0892, -0.1025, -0.0714,
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        0.0163, 0.2700, 0.0382, 0.0423, -0.1828, -0.0335]]),
'Counter/IL/word/<word_label>/functionalsensor-3': {tensor([[ 0.1550,
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0.1379, -0.1662, -0.1223, 0.0138, 0.1541, -0.0249, 0.0076,
0.1754,
-0.1031, 0.3440, 0.2142, -0.0626, -0.0043, 0.0458],

```

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    0.2871,  0.3013,  0.0417,  0.1178, -0.1829, -0.0889],
    [ 0.0202, -0.0011, -0.1927, -0.0227,  0.1886, -0.1815, -0.2122,
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    0.0789,  0.0966, -0.0454, -0.2129,  0.0602, -0.0982, -0.1756,
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    0.0590,  0.2324,  0.0512,  0.0919, -0.0840,  0.0044],
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    -0.0162,  0.2458,  0.0789,  0.0221, -0.1569,  0.0206],
    [ 0.0977,  0.0404, -0.0516, -0.0974,  0.1710, -0.1477, -0.2525,
-0.1028,
    0.1086,  0.0886, -0.1032, -0.1942,  0.0790, -0.1244, -0.0898,
0.1224,
    0.0120,  0.2783,  0.0285,  0.0249, -0.1966, -0.0268],
    [ 0.0910,  0.0409, -0.0542, -0.0946,  0.1845, -0.1374, -0.2145,
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    0.0760,  0.0732, -0.0789, -0.2234,  0.0829, -0.0940, -0.0637,
0.1219,
    0.0160,  0.2632,  0.0361,  0.0426, -0.1829, -0.0347],
    [ 0.0896,  0.0425, -0.0531, -0.1020,  0.1719, -0.1364, -0.2170,
-0.1120,
    0.0885,  0.0594, -0.0742, -0.2232,  0.0841, -0.0953, -0.0637,
0.1175,
    0.0108,  0.2685,  0.0379,  0.0423, -0.1814, -0.0378]]):
{'counter': 1, 'recent': True}},
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    [-0.0836,  0.0259,  0.0243, -0.1443,  0.1581,  0.0355, -0.2333,
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    0.0916,  0.0010, -0.0520, -0.0613,  0.2520, -0.1246, -0.0203,
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    0.2871,  0.3013,  0.0417,  0.1178, -0.1829, -0.0889],
    [ 0.0202, -0.0011, -0.1927, -0.0227,  0.1886, -0.1815, -0.2122,
0.0066,
    0.0789,  0.0966, -0.0454, -0.2129,  0.0602, -0.0982, -0.1756,
0.1116,

```

```

        0.0590, 0.2324, 0.0512, 0.0919, -0.0840, 0.0044],
    [ 0.0782, 0.0255, -0.0815, -0.0946, 0.1268, -0.1816, -0.2347,
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        -0.0162, 0.2458, 0.0789, 0.0221, -0.1569, 0.0206],
    [ 0.0977, 0.0404, -0.0516, -0.0974, 0.1710, -0.1477, -0.2525,
-0.1028,
        0.1086, 0.0886, -0.1032, -0.1942, 0.0790, -0.1244, -0.0898,
0.1224,
        0.0120, 0.2783, 0.0285, 0.0249, -0.1966, -0.0268],
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0.1219,
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    [ 0.0896, 0.0425, -0.0531, -0.1020, 0.1719, -0.1364, -0.2170,
-0.1120,
        0.0885, 0.0594, -0.0742, -0.2232, 0.0841, -0.0953, -0.0637,
0.1175,
        0.0108, 0.2685, 0.0379, 0.0423, -0.1814, -0.0378]]),
'CounterGetDataNode': 2}
True
Learner_sentence: the of of of of of of of
Situation: ['me1(t1)', 'gr1(t1)', 'sq1(t1)', 'ab2(t1,t2)', 'bi1(t2)',
'gr1(t2)', 'he1(t2)']
Word Accuracy per interval: [0.0]
Sentence Accuracy per interval: [0.0]
Procedure elapsed time: 00:00:00 hh:mm:ss
Removing all facts and rules from the prolog interpreter!

```

In [2]: